

ACCIDENTS AND WEATHER

This study investigates the relationship between weather conditions and road accidents in the United States. By analyzing accident severity, weather patterns, and geographic distribution, it aims to uncover potential trends and patterns that can inform future safety strategies.



METHODOLOGY

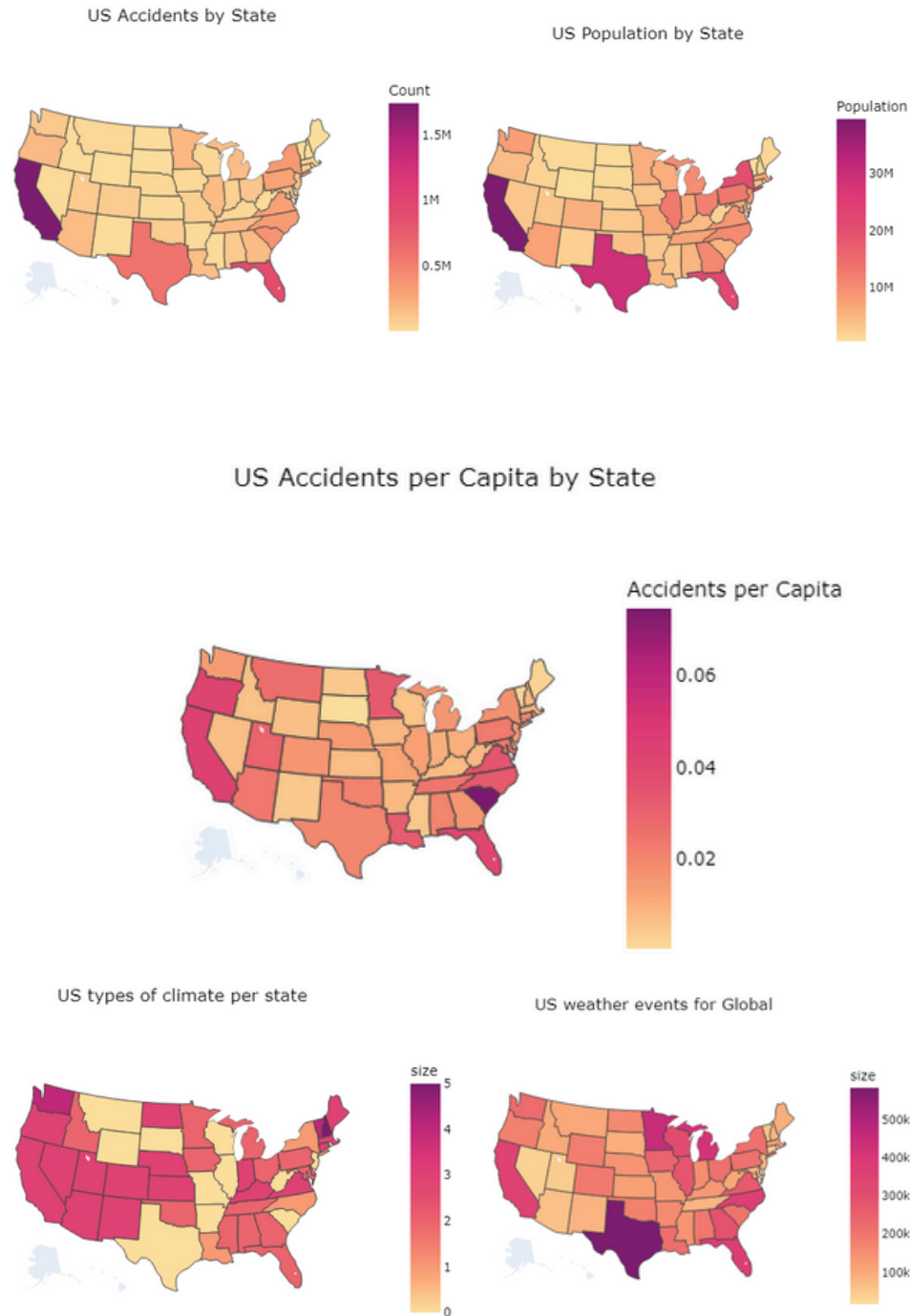
The study examines the influence of weather on road accidents by analyzing the number of accidents in each state relative to its population, assessing the frequency and severity of weather events, and exploring the relationship between weather conditions and accident severity through visual and statistical methods.

ANALYSIS

We can observe a direct correlation between the population between the population and the number of accidents. Wich is even verified when weighted with the population.

When put in parallel with the maps of the types of climates and the number of weather events, we can see clearly that for regions moree prone to weather events, there is also a small impact on the number of accidents.

Finally, if we plot the severity of the accidents according to the weather they were made in, we can observe that the weather has a big impact on the severity. More over We can also observe that most of the accidents are not due to the weather.



OBSERVATIONS

The weather is not a direct cause for the majority of the accidents in the US. However, we can observe that on normal weather, accident tends to append more often and with a higher severity. Concerning the repartition of the accidents, the analysis reveals that bad weather conditions tend to result in a higher proportion of minor accidents, although the overall number of accidents decreases. Additionally, more densely populated areas experience a greater number of accidents relative to their population, highlighting the impact of traffic density on road safety.

