

Minnesota Interstate Traffic Volume

An in-depth analysis of traffic patterns on our interstate highways



Department of Transportation

Business Problem: Traffic Volume

As traffic congestion keeps increasing with no clear resolution in sight, we need to find a solution.

Analyzing the data in three ways

Monthly Volumes

Viewing monthly traffic patterns allows us to find any potential trends by month.

Weather

Weather can have an impact on many things, including traffic, so it is important to analyze for any patterns.

Holiday Travel

Our roads may see more travelers (including out of state) than expected.

Monthly Traffic Volumes

August - Highest volume, possible end of summer seasonal traffic.

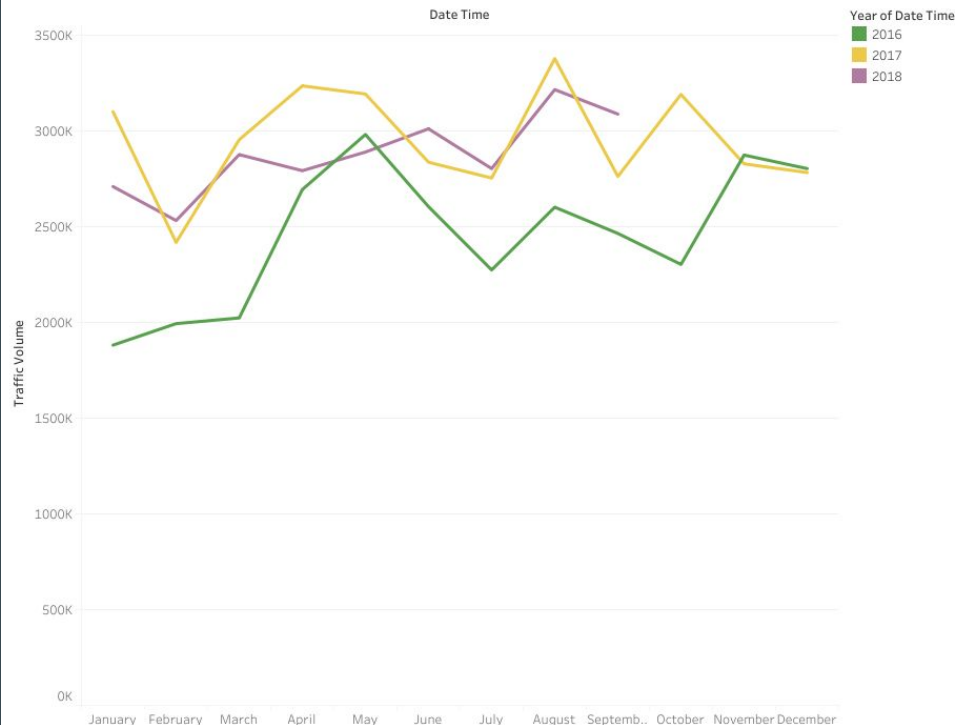
February - Lowest volume, best possible month for construction changes.

April - Significant decrease in 2018

Fairly consistent/predictable patterns

Minnesota Interstate Traffic

Traffic Volume: Month per Year



What role does weather play?

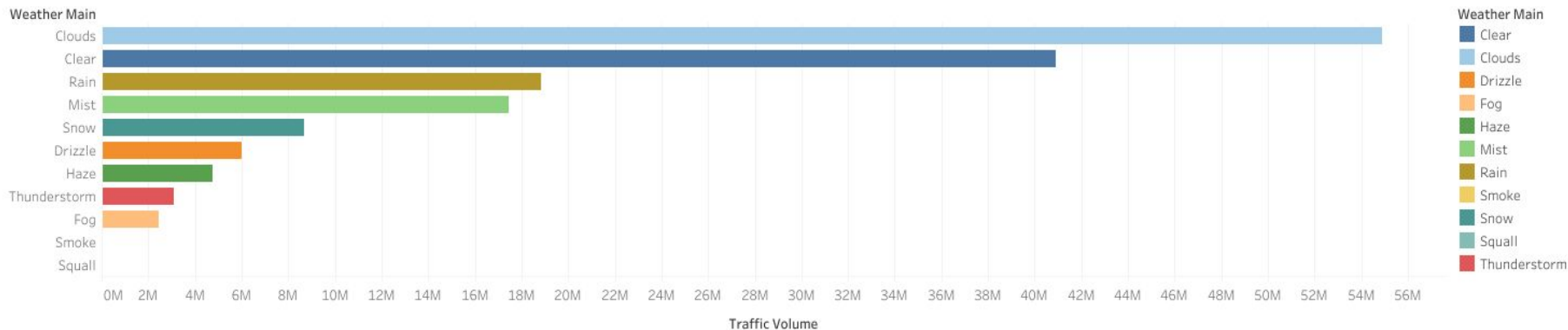
Clear/cloudy conditions result in the highest traffic volume.

Low-visibility conditions result in the lowest traffic volumes.

Precipitation has a significant impact on traffic volume, though a surprising number of motorists continue to drive in the rain.

What can we do to alleviate traffic delays?

Traffic Volumes: Weather Type



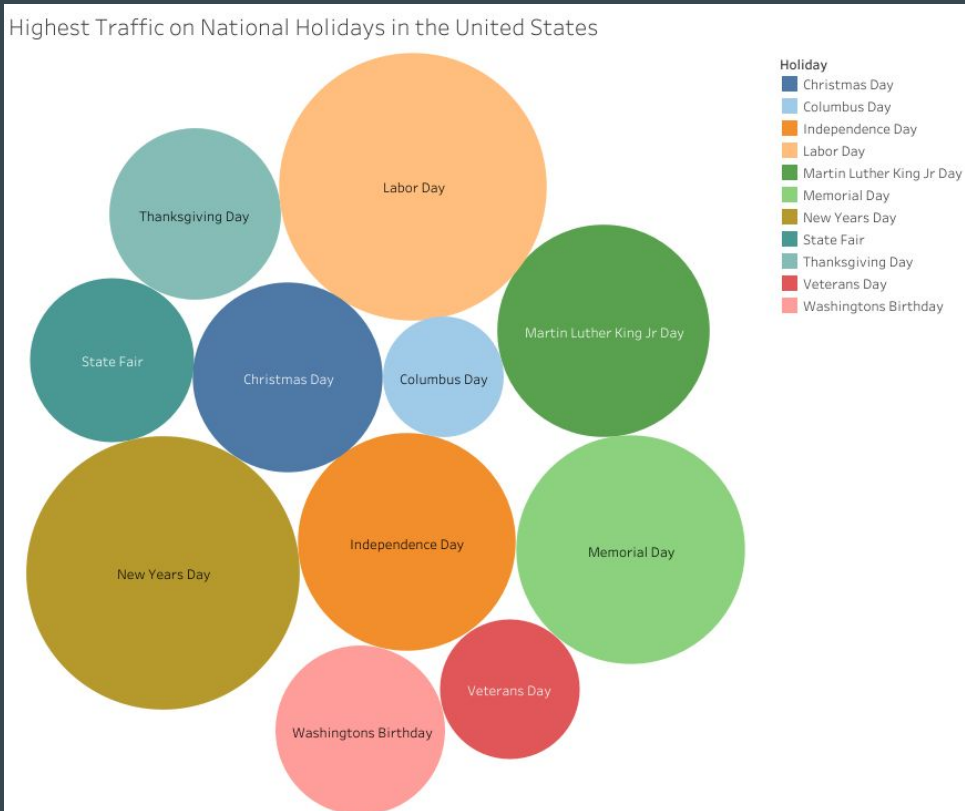
Holiday Travel

January - High traffic on New Years and Martin Luther King Jr. Day contribute to most of January's total.

September - Labor day contributes to the traffic, especially as a lot have a three day weekend.

August - State fair starting in August

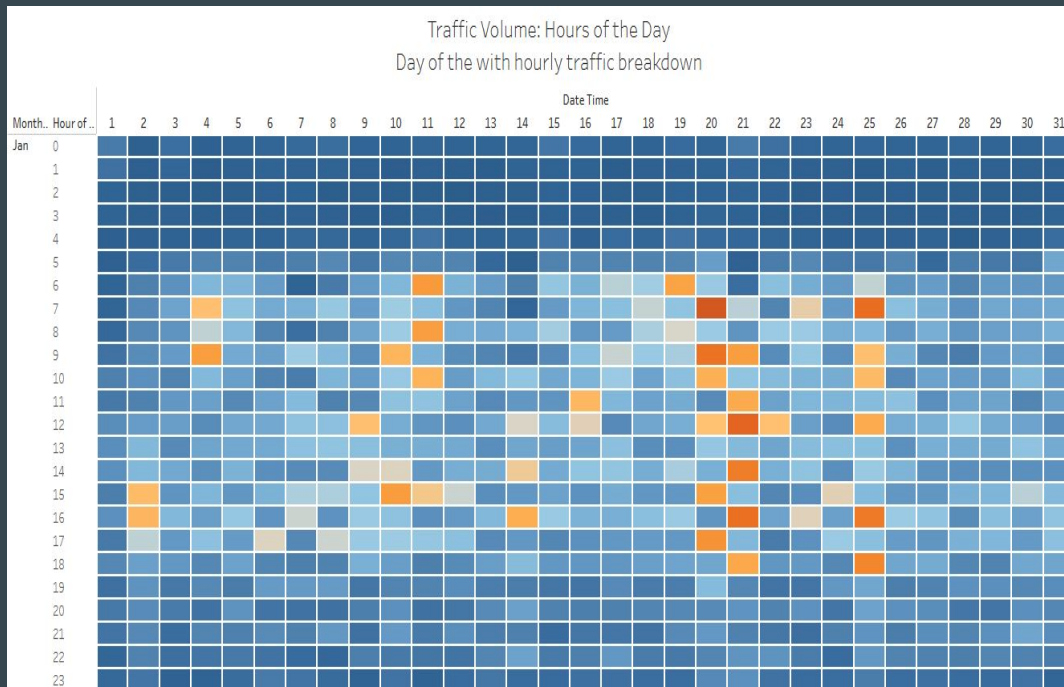
Most holidays have little impact on total traffic volume.



Patterns are reflected during the busiest travel times: rush hours to and from work

A day with a holiday does not have significantly higher or lower traffic volume throughout the day.

Holidays do not impact hourly traffic volume.



Thank you!
