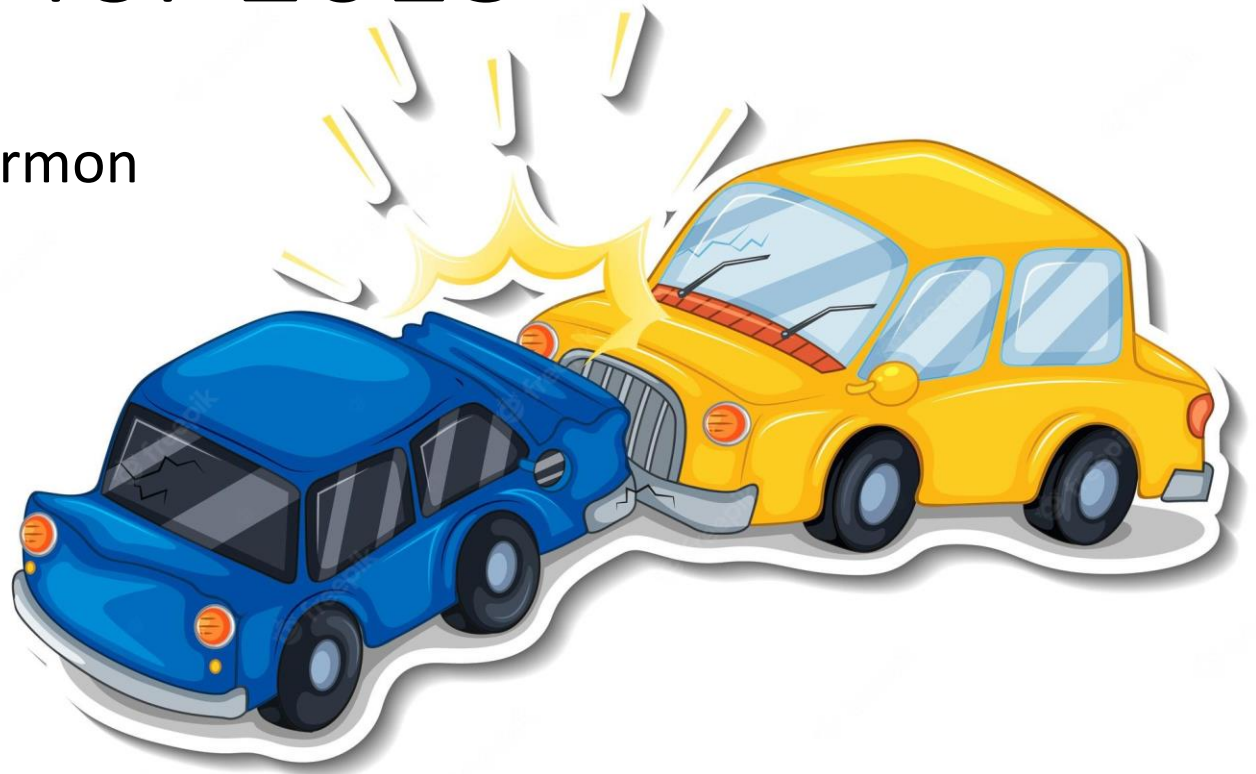


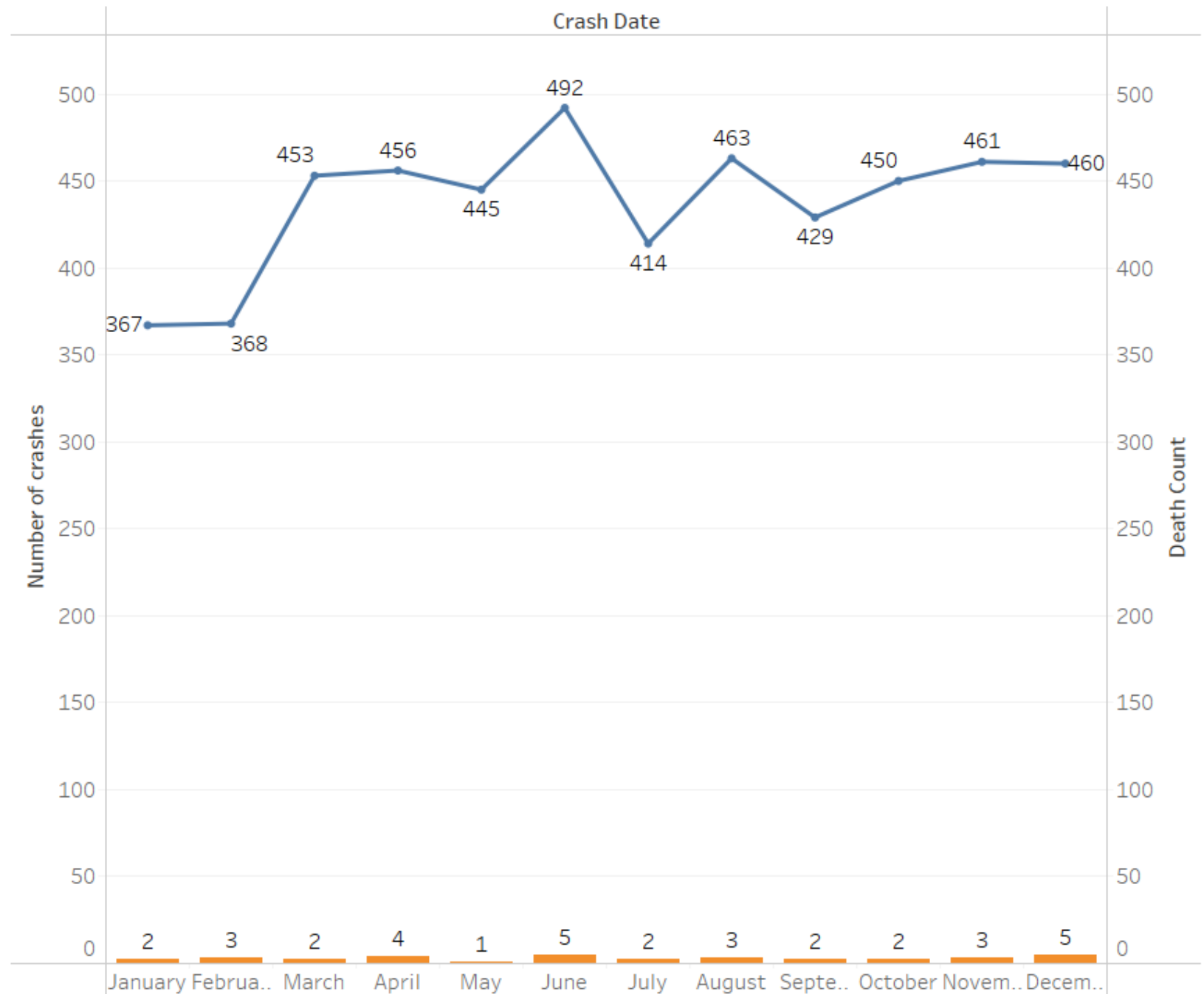
# An in-depth analysis of the motor vehicle crash Data in Texas for 2013

By Jackie Harmon



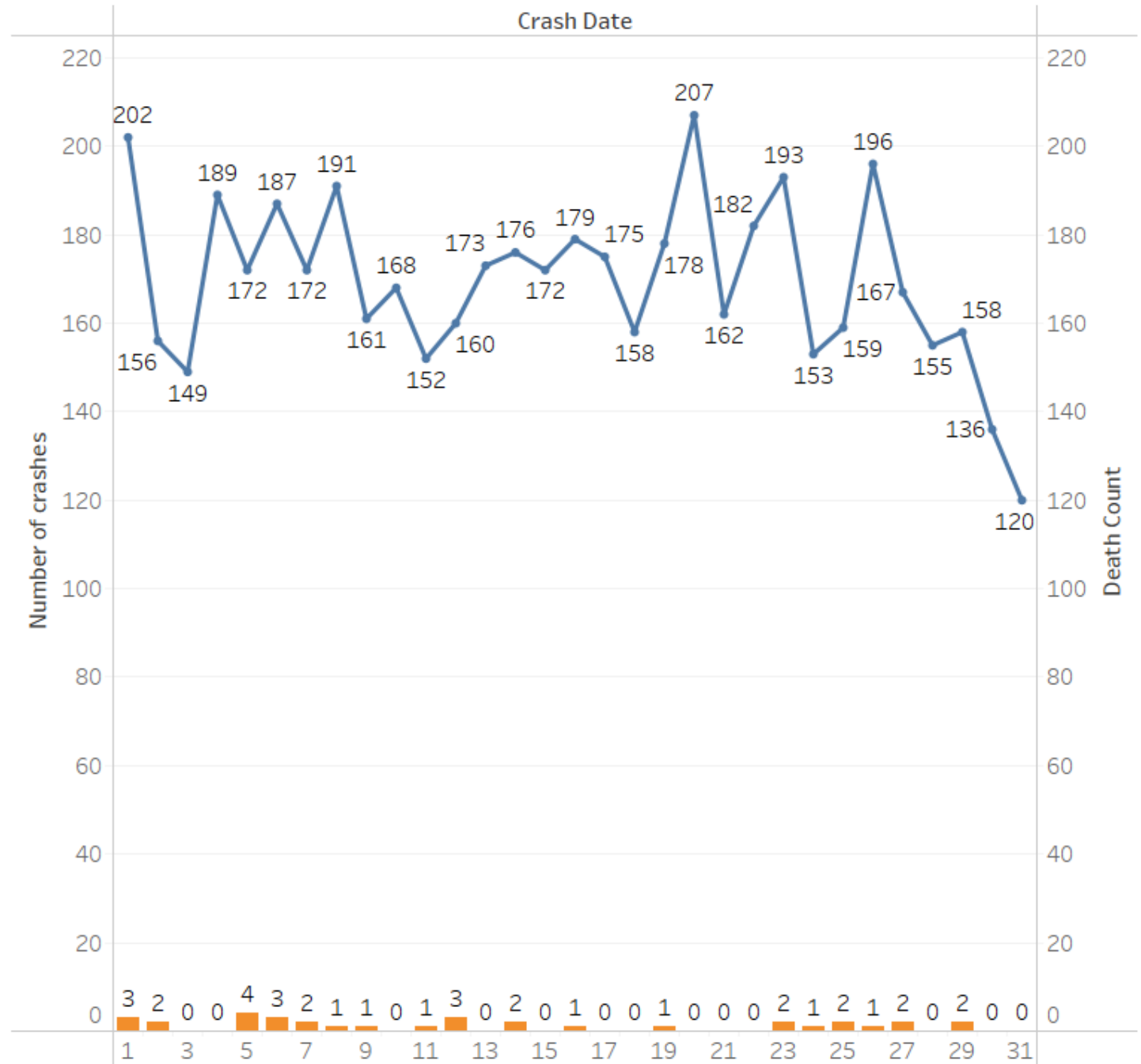
# Crashes and deaths by month

- 5,258 total crashes
- 34 deaths
- Highest crashes in June and August – most likely due to summer starting/ending; more vacations; more family trips; students out of classes for the summer
- Highest deaths in June and December – adding December most likely due to higher traffic numbers since traveling for the holidays



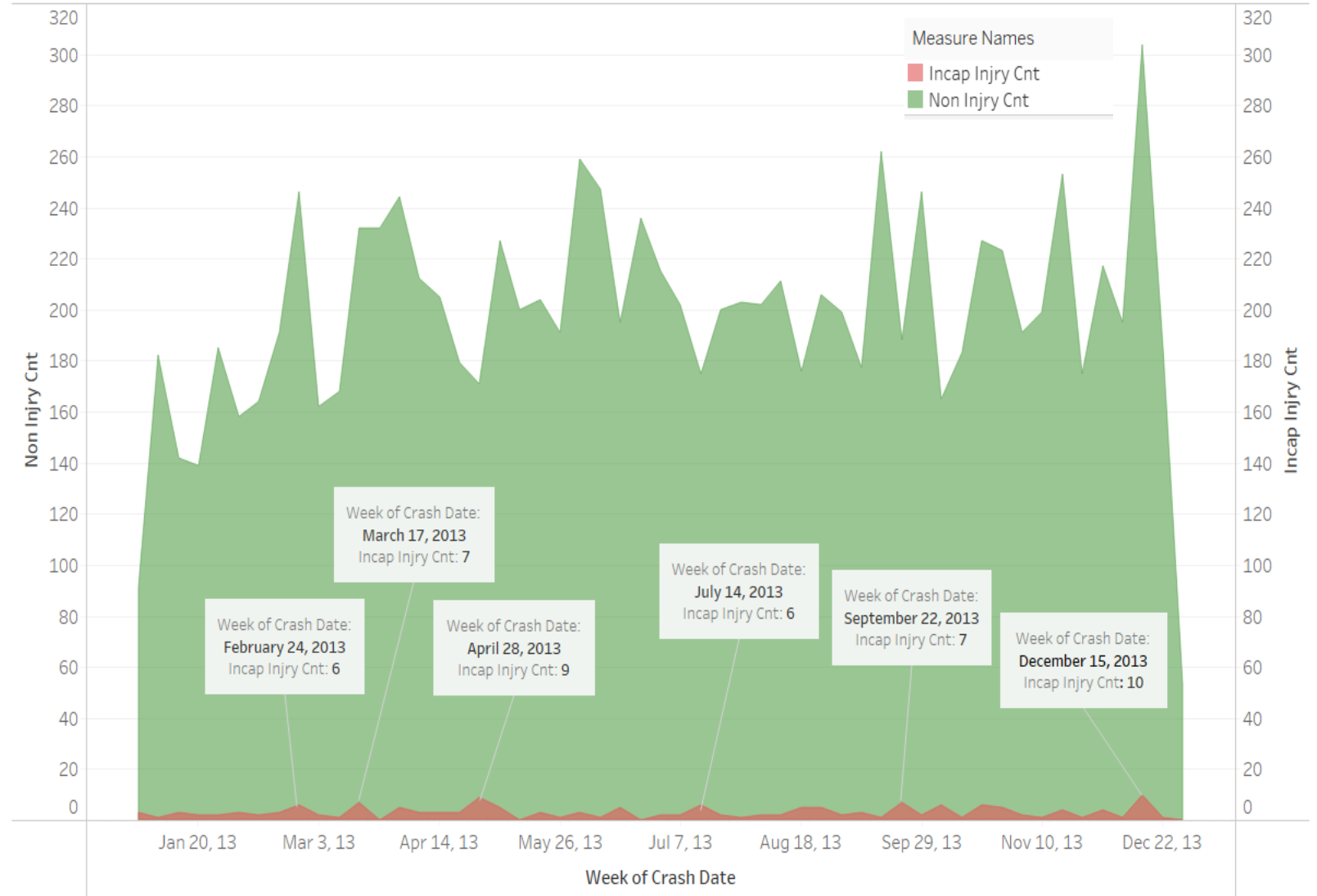
# Crashes and deaths by date in month

- The beginning of the month tends to have higher crashes, while the end of the month tends to have a lower amount of crashes
  - There is a spike in crashes towards the end of the month, but at the end, it is the lowest
- There is no specific pattern in the deaths per crash and the date in the month



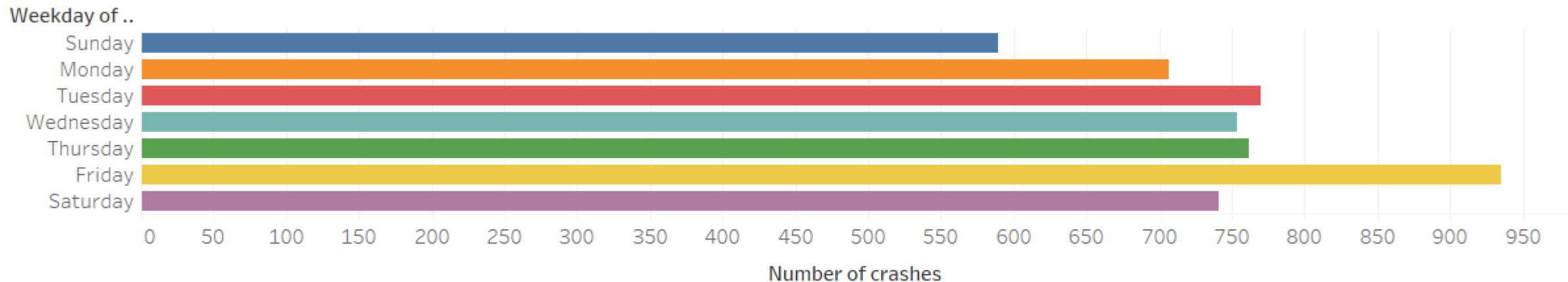
# Crashes and injury/noninjury by week

- There tends to be more crashes not resulting in injuries at the end of the year, with a lesser amount at the beginning of the year, but no obvious pattern in between
- There is no specific pattern in whether the crash results in an injury and the week of the year
  - There are several spikes of incapacitating injuries, which are annotated in the graphic
  - These spikes of injuries do not necessarily correspond to any of the major holidays, but they are a week or so in difference



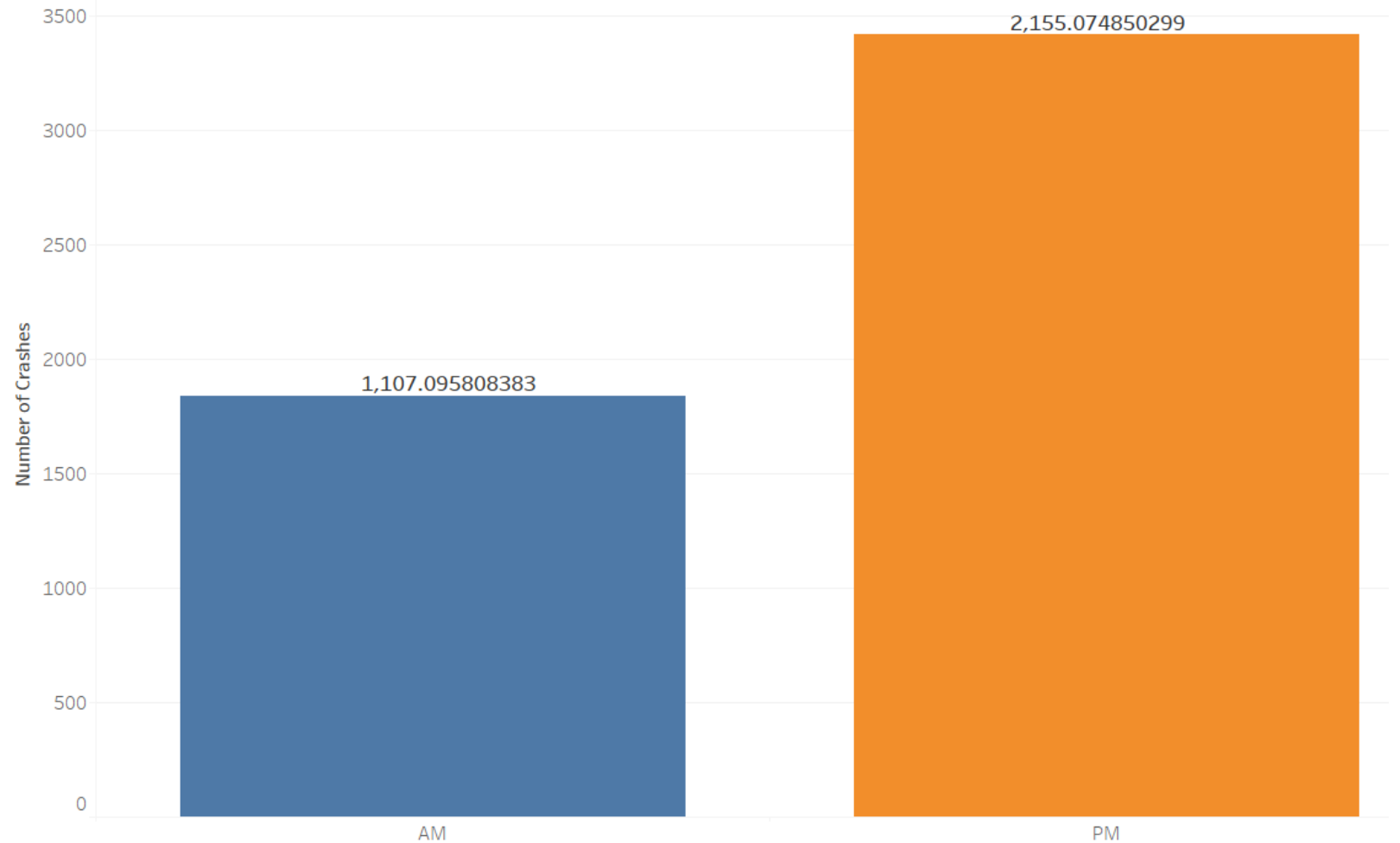
# Number of crashes per day of the week

- In Texas in 2013, Sundays had the least amount of crashes while Fridays had the most amount of crashes.
- The rest of the days had around the same amount of crashes as each other
- This could be due to the population having the same schedule during the work days, but going out or traveling on Fridays and staying home on Sundays



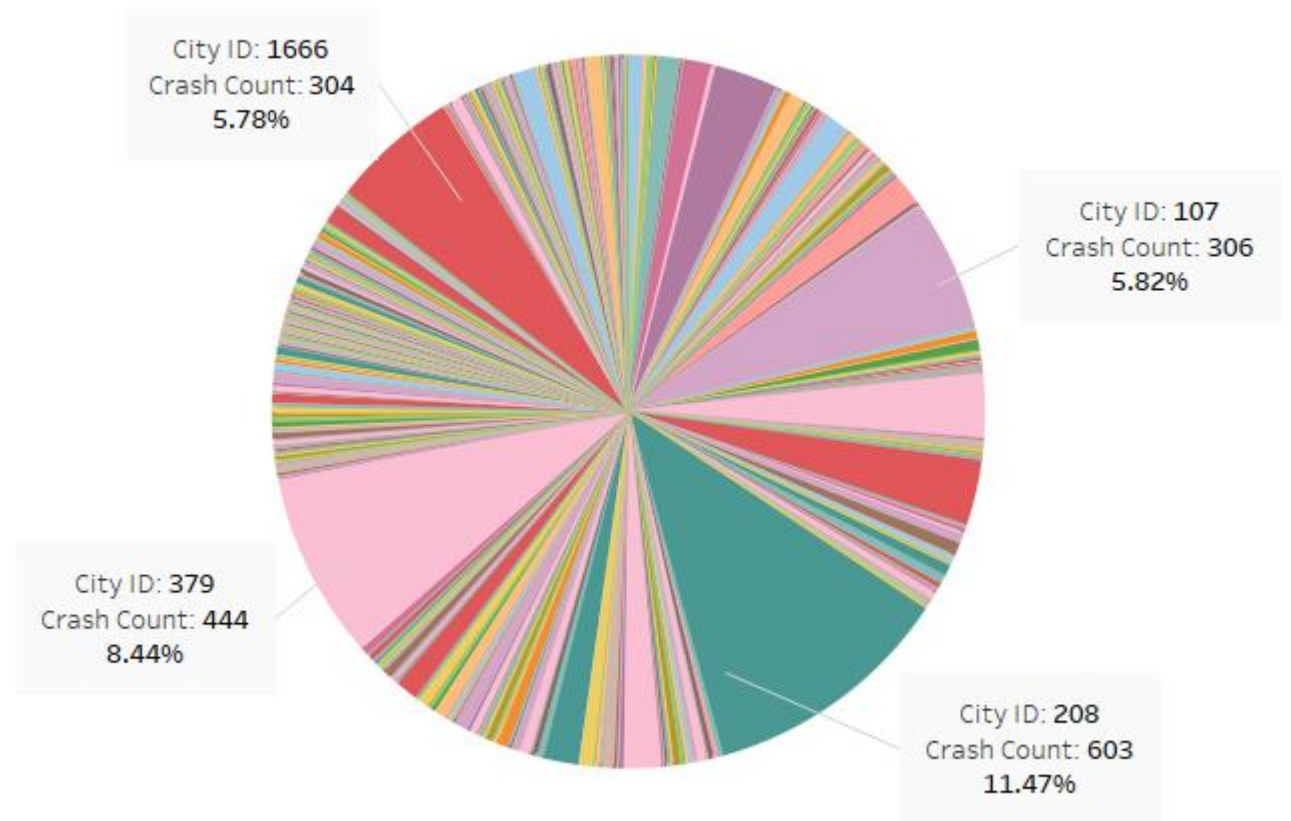
# Time of day of the crashes

- There are almost double the amount of crashes in the afternoon as in the morning



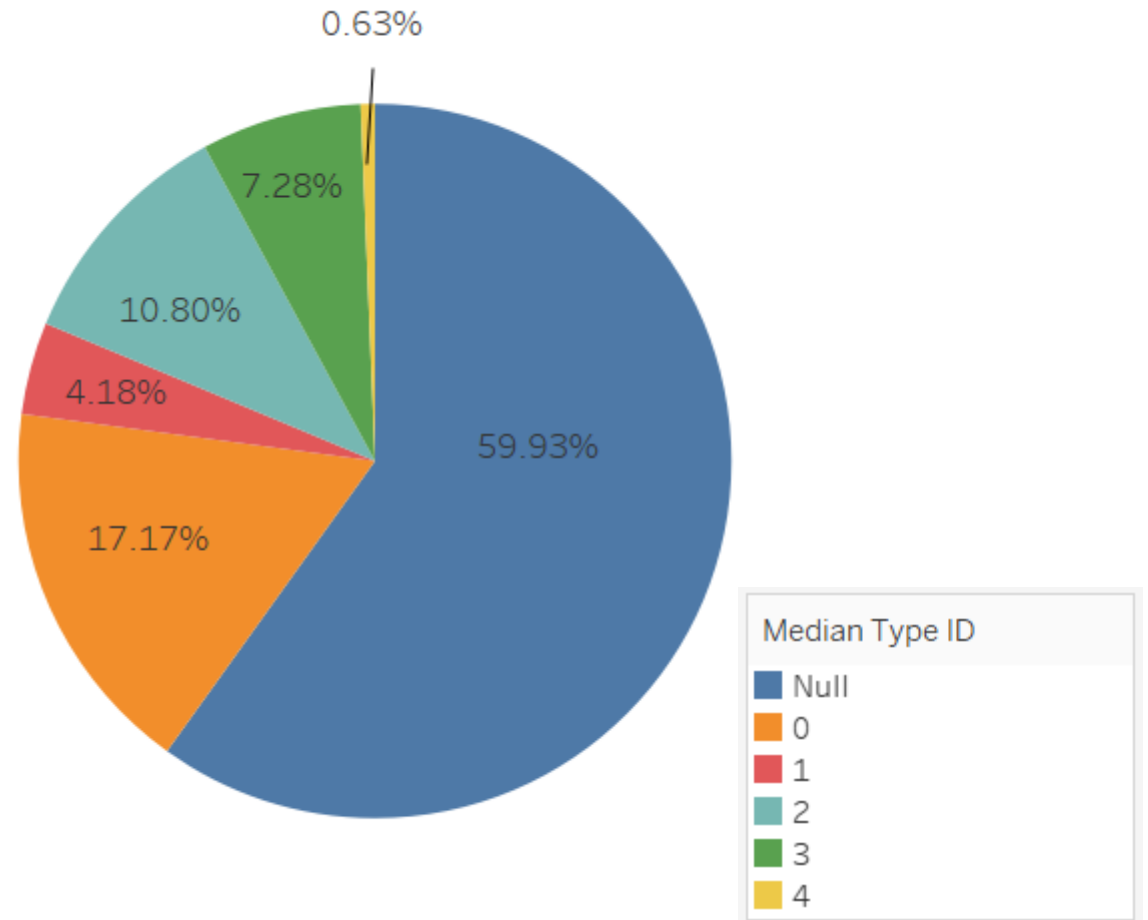
# City IDs with the most crashes

- The top four cities have ID numbers: 208, 379, 107, and 1666
- Together, these four cities make up around one-third of the crashes in all of Texas in 2013



# Median Types in the Car crashes

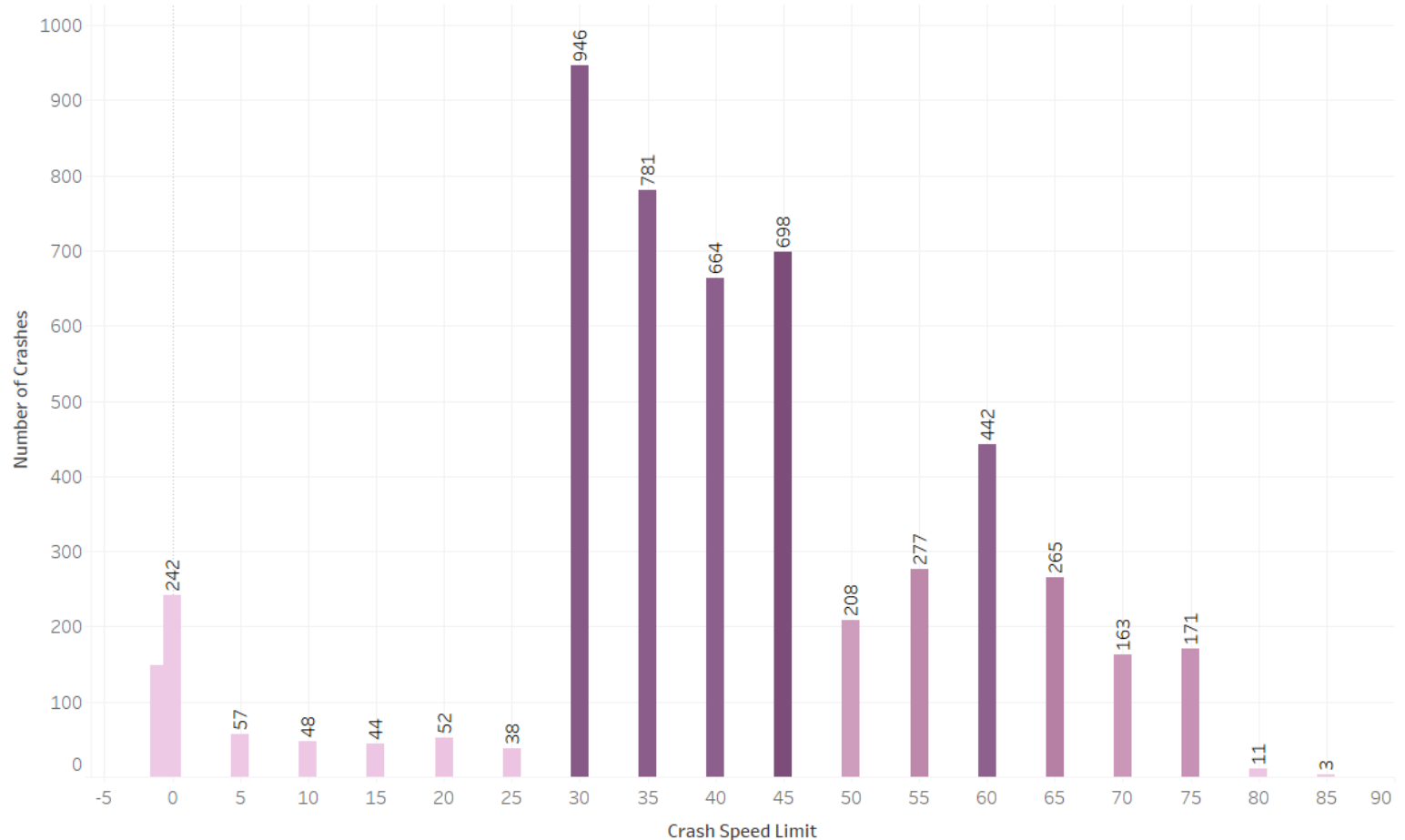
- 60% of the crashes happen on roads without medians





# The speed limit in the areas of the crash

- The highest amounts of crashes occur when the speed limit is between 30 and 45 mph
- Speed limits higher than 45 miles per hour do not have a higher number of crashes
  - This could be due to lower speed limits not being appropriate, and cars trying to pass the slower cars



# Call to Action

- The cities with the highest number of crashes should be examined to determine the reason for the crashes
  - Possibly need to add medians
  - Make sure the speed limits are appropriate for the type/location of the roads
- Further analysis should be done to pinpoint the time frames with the highest number of crashes, and a system implemented to allow certain jobs/schools to let out at earlier/later times so that there are less cars on the road at that time
- More information should be gathered in the future to have the size of the roads examined as well, to see if it fits the population density