



# 2013 Motor Vehicle Crashes in Texas

**Data Wrangling and Visualization Project with Tableau**

# Exploring Motor Vehicle Crashes Data in Texas

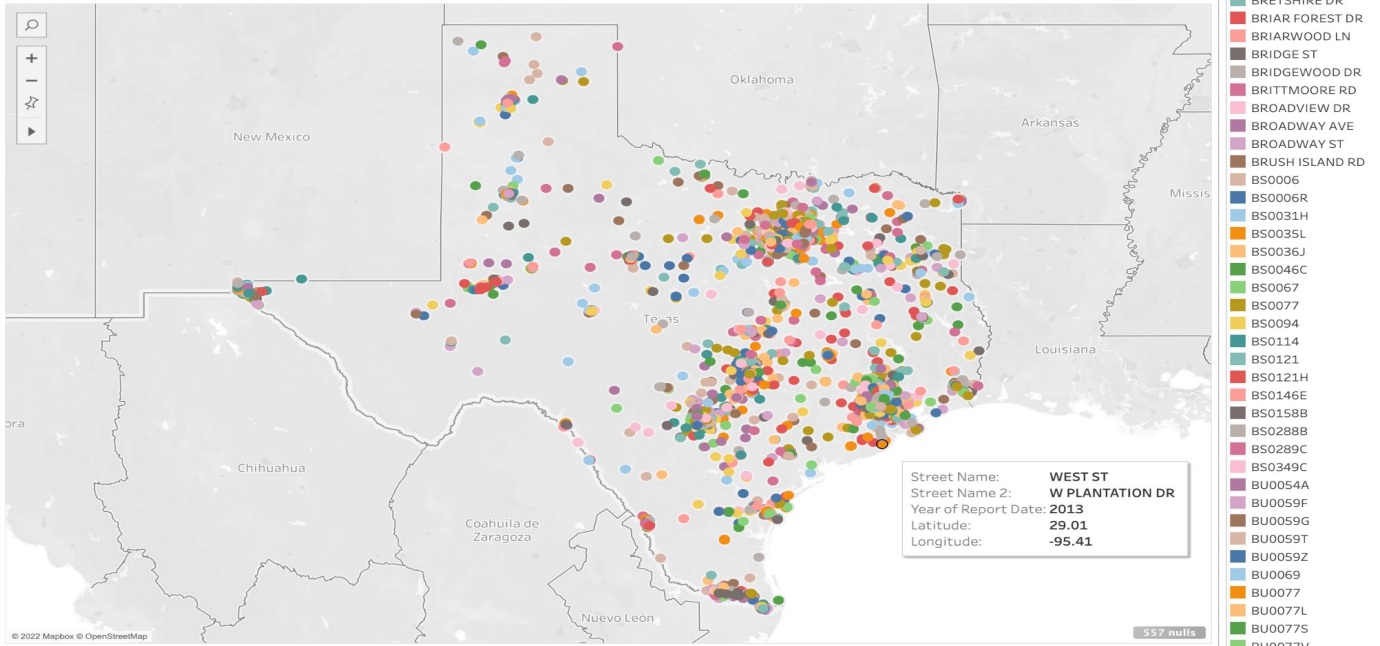
In this presentation, motor vehicle crashes are investigated using this data set.

[https://repo.exeterlms.com/documents/V2/DataScience/Data-Wrang-Visual/motor\\_vehicle\\_crashes.zip](https://repo.exeterlms.com/documents/V2/DataScience/Data-Wrang-Visual/motor_vehicle_crashes.zip)

This dataset has 5258 motor vehicle crashes' informations with 171 variables.

# Motor Vehicle Crashes' Locations in Texas in 2013

## Motor Vehicle Crashes Locations in Texas in 2013



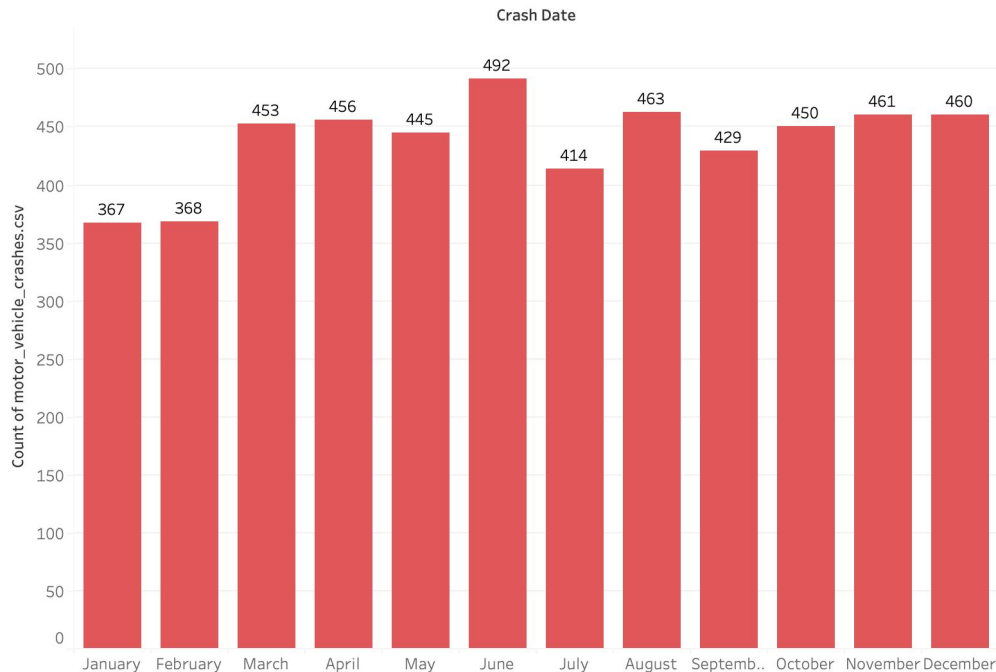
**-This mapview shows motor vehicle crashes' locations in Texas in 2013**

**-As expected, major cities such as Houston, Austin, and Dallas have more crashes than other part of Texas**



# Motor Vehicle Crashes Cumulation Over the Months

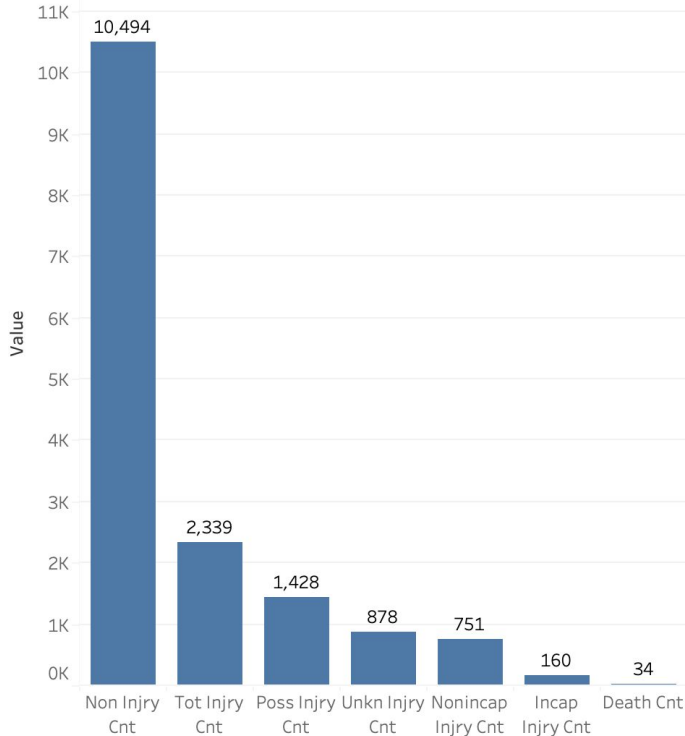
Total Motor Vehicle Crashes by Month



**5258 motor vehicle crashes occurred in Texas during 2013. The Plot on the left shows distribution of crashes by month. Even though maximum number of crashes happened in June, the number of crashes above the 400 the most of the months. Average number of motor vehicle crashes is 438.**

# Injury Statistic

2013 Injury Counts After Crashes in Texas



## Injury Classification Scale and Definitions in Texas

TEXAS	2013 to Present		
	K - Killed	K	Killed: Died due to injuries sustained from the crash, within 30 days of the crash.
	A - Incapacitating Injury	A	Incapacitating Injury: Severe injury which prevents continuation of normal activities; includes broken or distorted limbs, internal injuries, crushed chest, etc.
	B - Non-Incapacitating Injury	B	Non-Incapacitating Injury: Evident injury such as bruises, abrasions, or minor lacerations which do not incapacitate.
	C - Possible Injury	C	Possible Injury: Injury which is claimed, reported, or indicated by behavior, but without visible wounds; includes limping or complaint of pain.
	N - Not Injured	O	Not Injured: The person involved in crash did not sustain an A, B, or C injury.
	99 - Unknown (2006 to present)	U	Unknown: Unable to determine whether injuries exist. Some examples may include: Hit and Run, Fled Scene, FSRA, etc.

**–12,833 people involved motor vehicle crashes in 2013.**

**–10,494 people didn't get injured.**

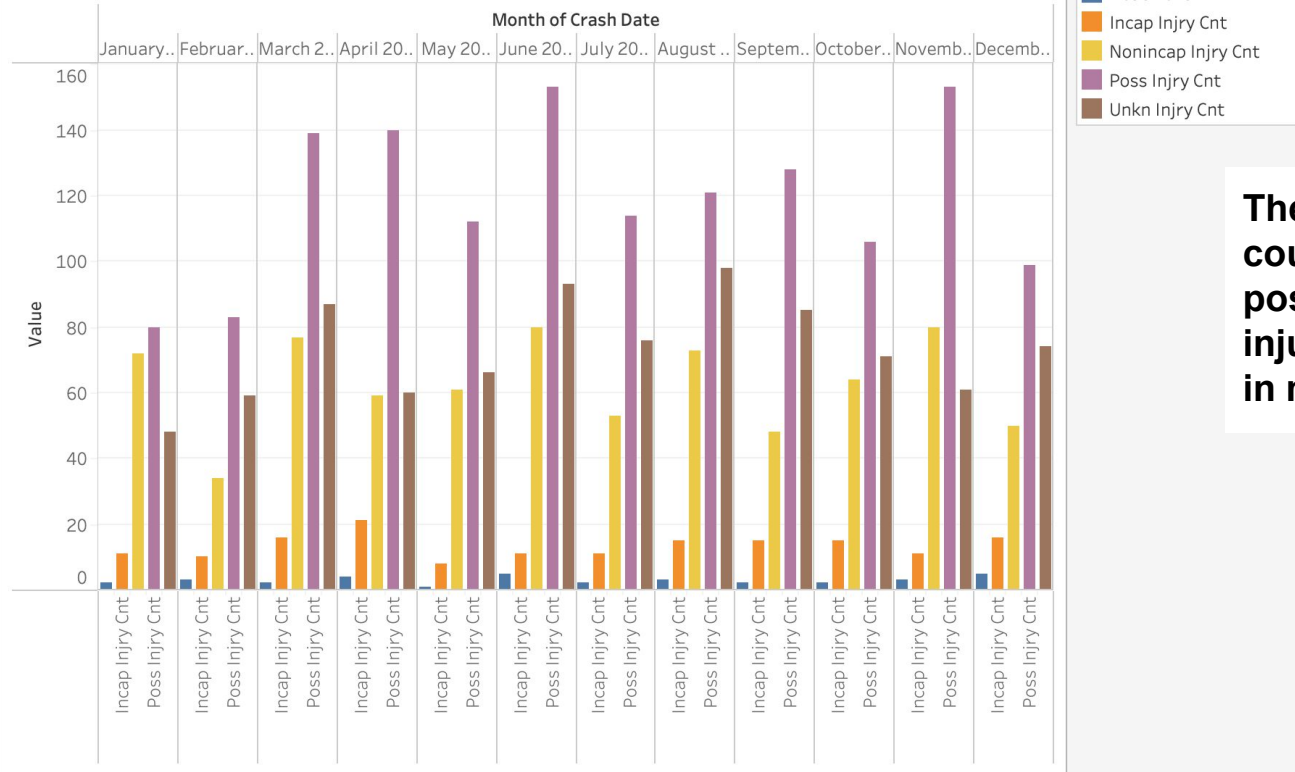
**–2,339 people injured.**

**–34 out of 2,339 people were death.**

**Definition of other injuries explained above at the table.**

# Injury Statistic

#Type of Injuries by Month



The graph on the left shows injury counts by months. It can be seen possible injuries and unknown injuries are the major injury types in motor vehicle crashes.

# Summary

- 5258 motor vehicle crashes in 2013 were investigated.
- Big cities have more crashes than other part of Texas.
- Not too much difference number of crashes between months of the year.  
Average is 438 crashes.
- 12,833 people involved crashes.
- 2,339 people injured
- 34 people were killed.