



US Car Accidents

R Shiny App:

[https://melanie-m-zheng.shinyapps.io/us car accidents/](https://melanie-m-zheng.shinyapps.io/us_car_accidents/)

Overview

Which State has the most car accidents?

-Count

-Count per (10k) capita

-Trends?

US CAR ACCIDENTS

OVERVIEW

EXPLORE

DATA

ABOUT ME

Car Accidents in the U.S.

The map aggregates 2.6 million US car accident records from January 2017 to December 2019, excluding Hawaii and Alaska.

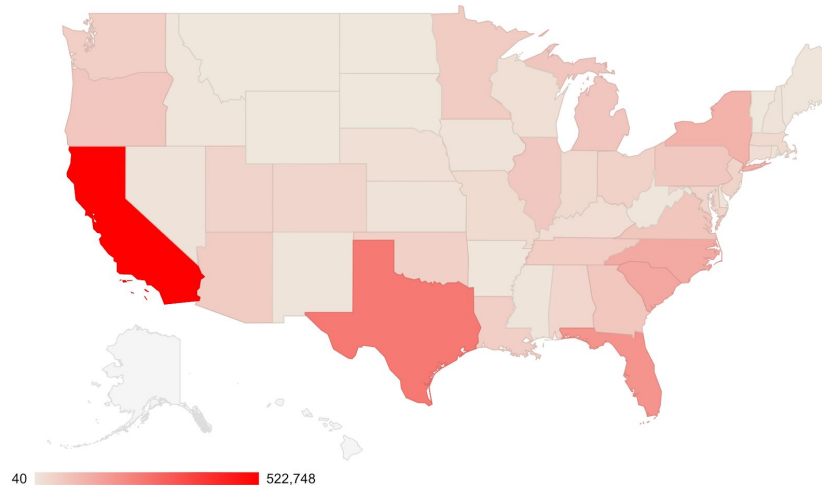
CHOOSE FROM:

- ☒ Count of Accidents
- ☐ Accidents per 1,000 residents

YEAR RANGE



Hover over the states to see more detail.



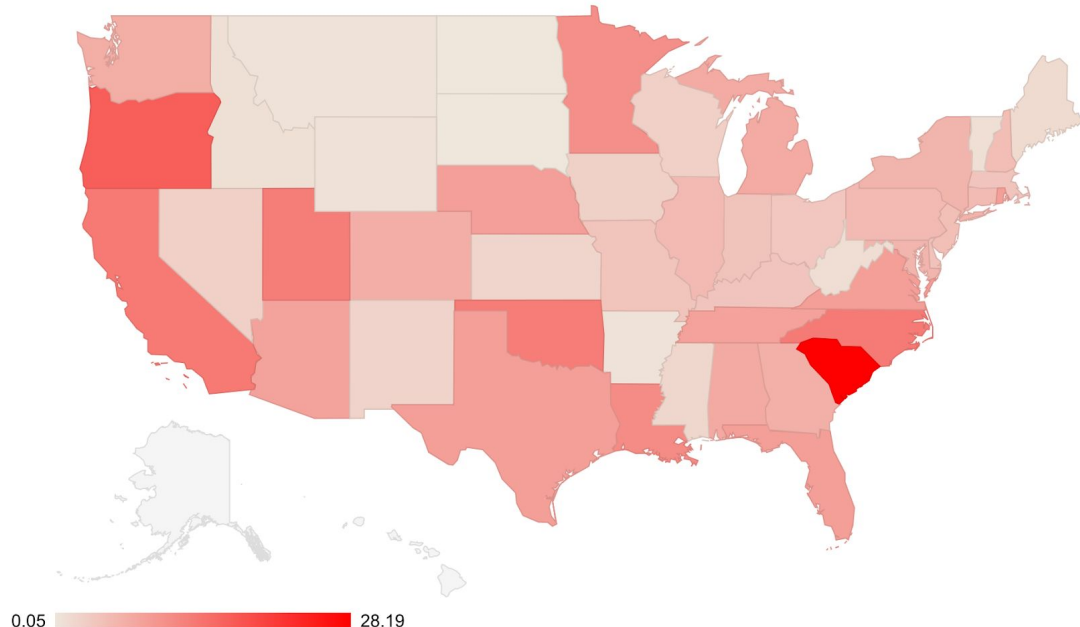
NO.1: California

NO.2: Texas

NO.3: Florida

Car Accidents in the U.S.

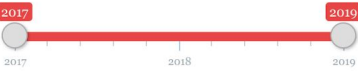
The map aggregates 2.6 million US car accident records from January 2017 to December 2019.
excluding Hawaii and Alaska.



CHOOSE FROM:

- ☐ Count of Accidents
- ☒ Accidents per 1,000 residents

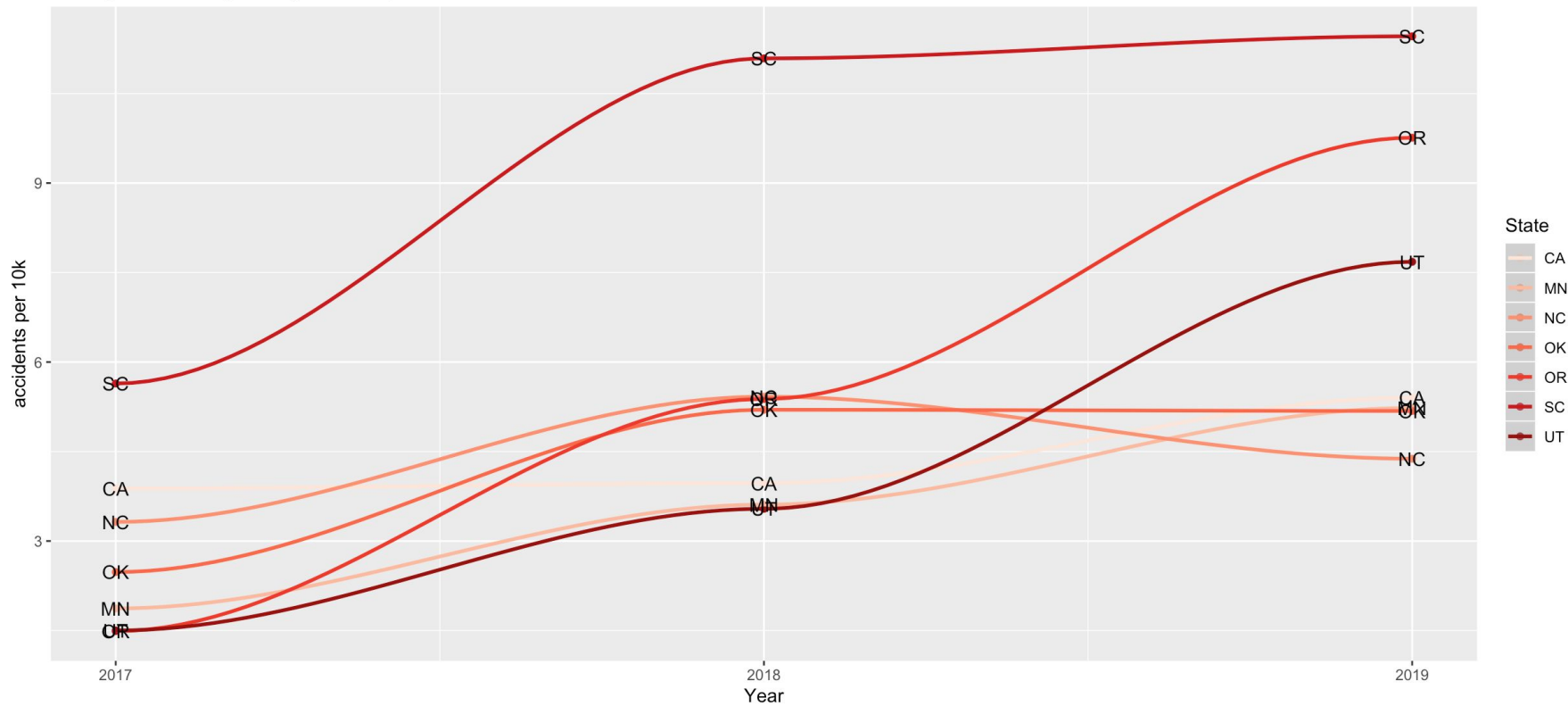
YEAR RANGE



Hover over the states to see more detail.

- NO.1: South Carolina
- NO.2: Oregon
- NO.3: California

Change over the past 3 years. Top 7 States in 2019.



Explore

- Selection Panel

- Top 3 counties

- Any findings from the map?

(highways)

US CAR ACCIDENTS

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SELECT A STATE:

NY

DATE RANGE:

Dec/01/2019

-

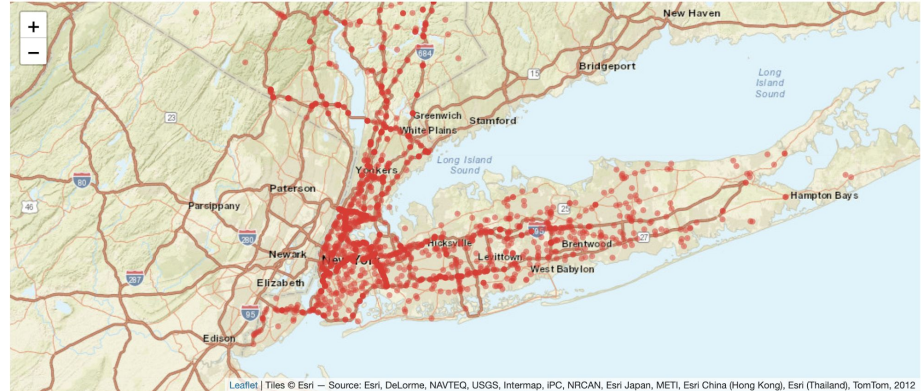
Dec/31/2019

FILTER BY SEVERITY:

☒ 1 ☒ 2 ☒ 3 ☒ 4[MAP](#)[SUMMARY](#)[VARIABLES](#)[TRENDS](#)[INTERESTING FINDINGS](#)

Zoom in to view more details

TOP 3 COUNTIES

NO.1: Monroe
Count: 431**NO.2: Queens**
Count: 314**NO.3: Suffolk**
Count: 278

Severity vs Day_Night

SELECT A STATE:

NY ▼

DATE RANGE:

Dec/01/2019 - Dec/31/2019

FILTER BY SEVERITY:

☒ 1 ☒ 2 ☒ 3 ☒ 4



VS

SELECT A STATE:

NY ▼

DATE RANGE:

Dec/01/2019 - Dec/31/2019

FILTER BY SEVERITY:

☐ 1 ☐ 2 ☐ 3 ☒ 4



Weather Variables

- Interactive dropdown

HEAT MAP/DENSITY GRAPH

Select a variable:

temperature

Select another variable:

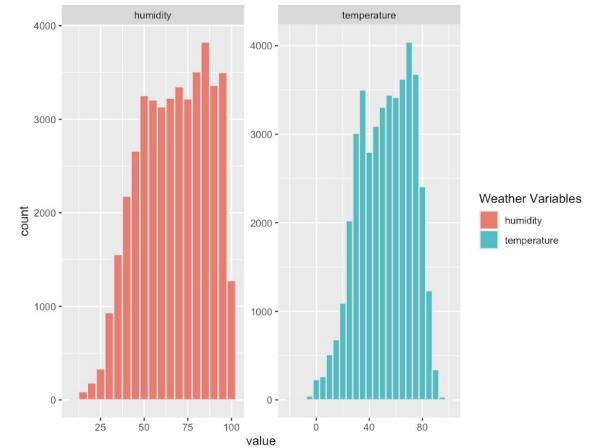
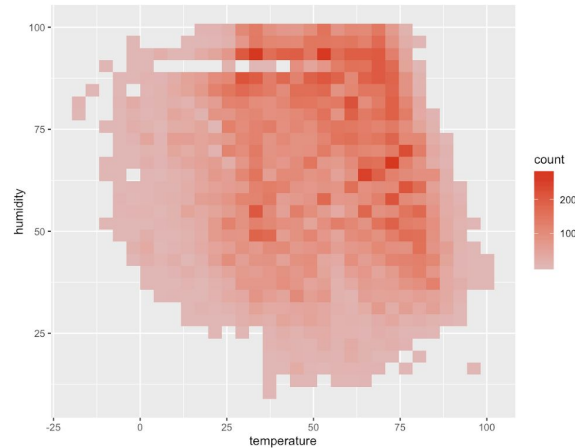
humidity

humidity
windchill
pressure
visibility
windspeed
precipitation

VARIABLES

TRENDS

INTERESTING FINDINGS



Time Series Chart

SELECT A STATE:

NY

DATE RANGE:

Sep/01/2019

-

Dec/31/2019

FILTER BY SEVERITY:

☒ 1 ☒ 2 ☒ 3 ☒ 4

MAP

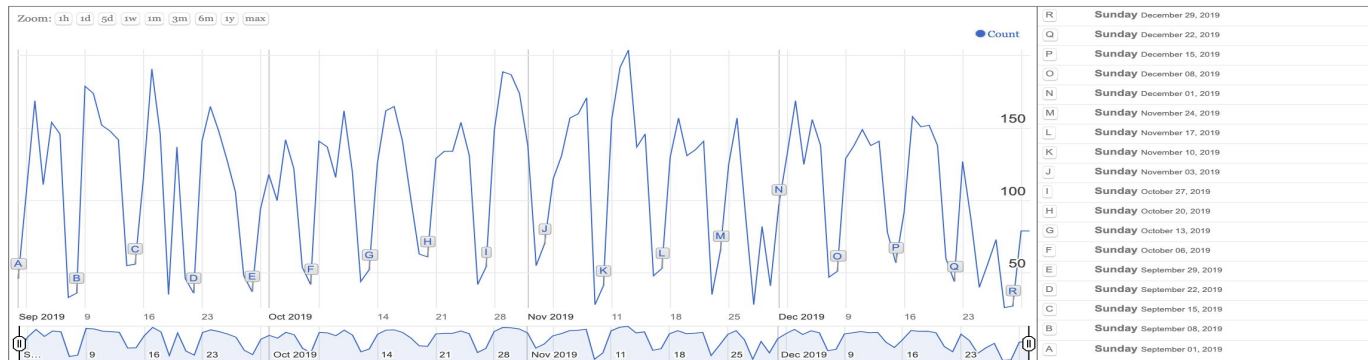
SUMMARY

VARIABLES

TRENDS

INTERESTING FINDINGS

Number of Car Accidents Over Time



Data Tables

US CAR ACCIDENTS

[OVERVIEW](#)[EXPLORE](#)[DATA](#)[ABOUT ME](#)

Dataset is very large with 3 million records.

Choose a state:

AL

[ACCIDENTS DATA](#)[POPULATION DATA](#)[INSURANCE DATA](#)

Source: [Kaggle](#)

Show **10** entries

Search:

Severity	Start_Lat	Start_Lng	City	County	State	temperature	windchill	humidity	pressure	visibility	windspeed	pre
2	31.987831	-85.114471	Eufaula	Barbour	AL	82.9		49	29.96	10		
2	32.765179	-85.263687	Valley	Chambers	AL	85.6		50	30.1	10	3.5	
2	32.487099	-84.99881	Phenix City	Russell	AL	73		93	30.06	10	3.5	
2	32.080082	-85.149788	Pittsview	Russell	AL	82.4		79	30	10	3.5	
2	31.54051	-87.908562	Jackson	Clarke	AL	59	59	83	29.77	10	0	
2	33.174229	-87.475052	Tuscaloosa	Tuscaloosa	AL	49	49	83	29.85	10	3	
2	33.165249	-87.547287	Tuscaloosa	Tuscaloosa	AL	84	84	34	29.95	10	6	