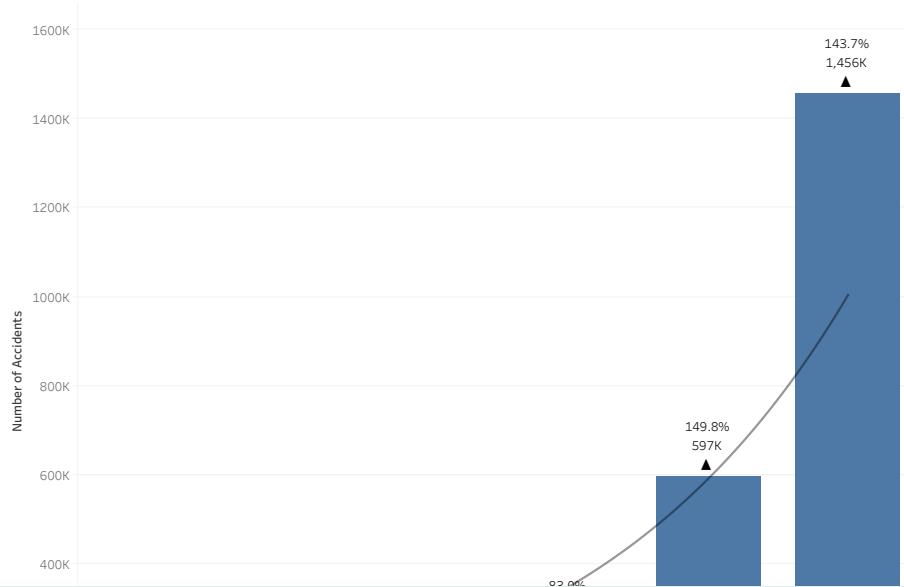


## What is causing the rise of accidents in USA?

The number of accidents is rising every year	Thousands of accidents across the United States	In California, 80% of the accidents are happening in 20% of the cities	Low severity accidents increased in past few years	Accidents usually occur between afternoon and e...
----------------------------------------------	-------------------------------------------------	------------------------------------------------------------------------	----------------------------------------------------	----------------------------------------------------

Aside from a 2.7% decline from 2017 to 2018, the number of accidents rises significantly yearly. 2020 saw the largest percentage rise of 149.8%, followed by 2021 with a percentage increase of 143.7%.

Count of US\_Accidents\_D..  
98,575 to 1,455,869



## What is causing the rise of accidents in USA?

The number of accidents is rising every year

### Thousands of accidents across the United States

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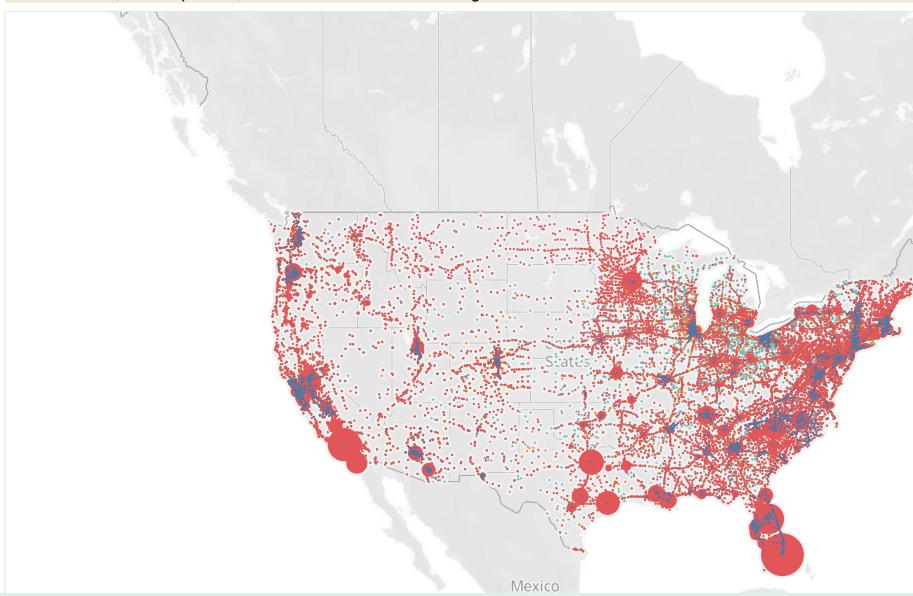
The number of accidents is greater near the major coastal cities due to the larger population and higher travel rate such as Miami and Los Angeles. In contrast, central cities have less number of accidents due to the less populated states and cities.

Also, for comparison, eastern states have a much higher number of accidents than the western states.

- 1
- 2
- 3
- 4

- Severity
- 1
  - 2
  - 3
  - 4

- Count of US\_Accidents\_D..
- 13
  - 500,000
  - 1,000,000
  - 1,309,932



## What is causing the rise of accidents in USA?

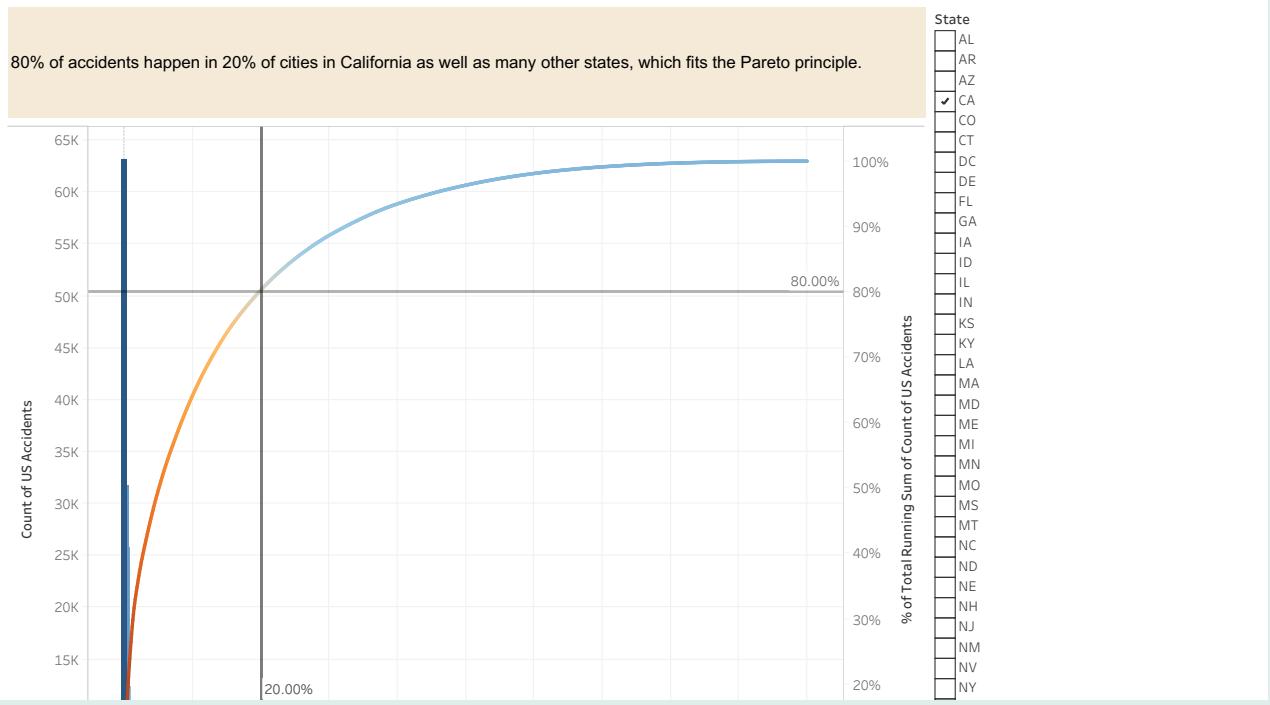
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Thousands of accidents accross the United States

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Accidents usually occur between afternoon and evening at weekdays



## What is causing the rise of accidents in USA?

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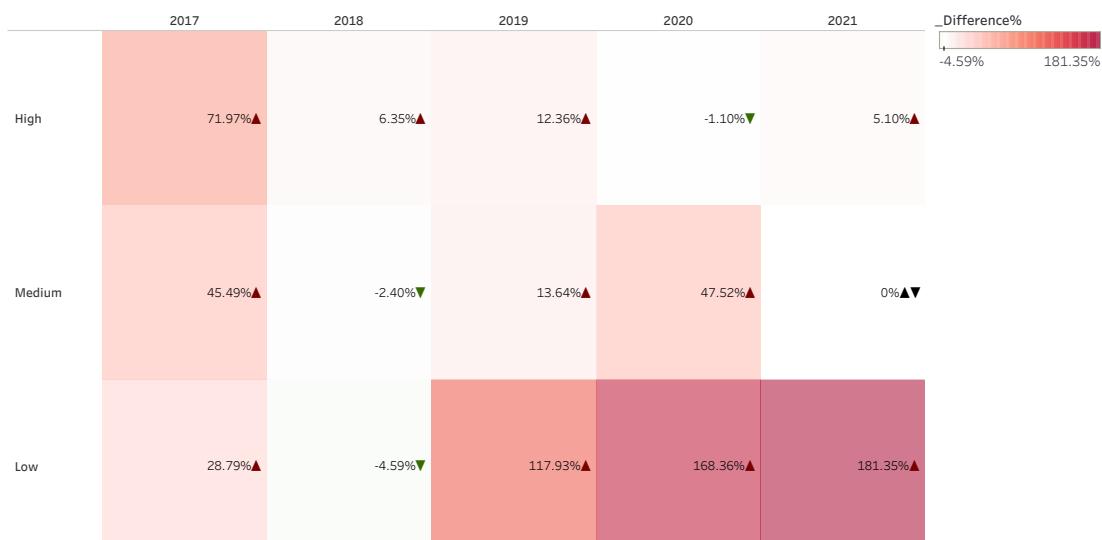
Accidents usually occur between afternoon and evening at weekdays

80% of accidents are caused by 20% of the weather conditions

With a rise of 181.35%, the 2021 low and very low case difference was the largest percent difference.

Except for 2018 (very low to low and low to medium severity) and 2020 (medium-high severity), the impact of severity increased for every year as the severity level increased. The severity impact in those situations is lower than the previous severity level.

**SeverityImpact**  
 High  
 Low  
 Medium  
 Very low



## What is causing the rise of accidents in USA?

In California, 80% of the accidents are happening in 20% of the cities

Low severity accidents increased in past few years

**Accidents usually occur between afternoon and evening at weekdays**

80% of accidents are caused by 20% of the weather conditions

Recommendations

In general, weekdays have more accidents than weekends, as shown by an analysis of accident numbers for each day. Level 2 severity is the predominant severity level for each day of the week, and level 3 is the secondary dominant level.

Accidents usually occur between the afternoon and the evening. The least number of accidents happen between midnight and early in the morning.

Severity  
■ 1  
■ 2  
■ 3  
■ 4



## What is causing the rise of accidents in USA?

In California, 80% of the accidents are happening in ..

Low severity accidents increased in past few years

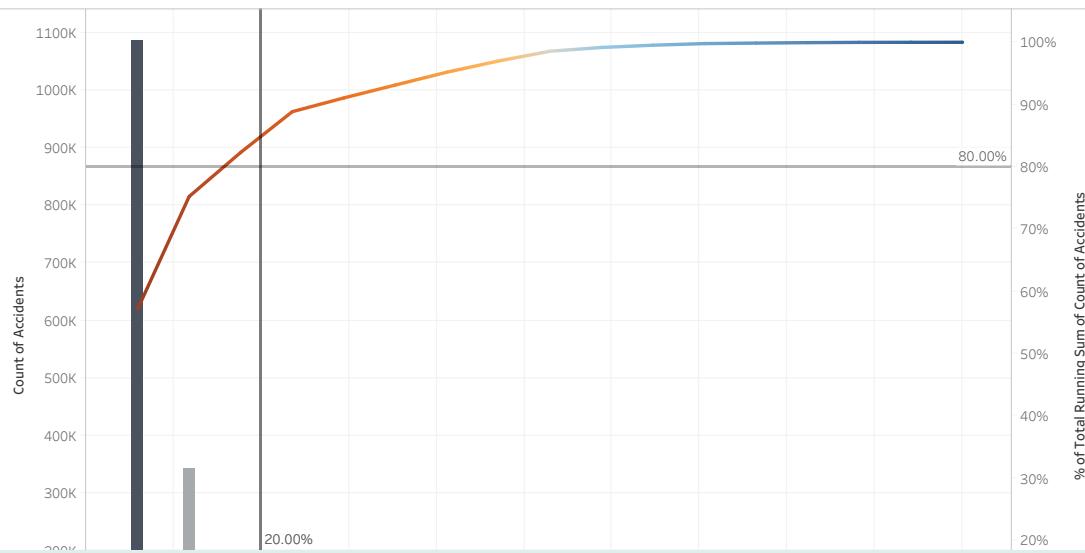
Accidents usually occur between afternoon and evening at weekdays

**80% of accidents are caused by 20% of the weather conditions**

Recommendations

More than 80% of all incidents happen under fair, cloudy, and clear weather conditions, which account for 20% of all distinct weather conditions.

Blowing dust, blowing snow, mist and heavy snow are the weather conditions with least accidents.



## What is causing the rise of accidents in USA?

In California, 80% of the accidents are happening in ..	Low severity accidents increased in past few years	Accidents usually occur between afternoon and evening at weekdays	80% of accidents are caused by 20% of the weather conditions	Recommendations
---------------------------------------------------------	----------------------------------------------------	-------------------------------------------------------------------	--------------------------------------------------------------	-----------------

### Recommendations:

Based on the data we have gathered and visualizations, we can notice that many accidents are happening in just a few cities. This could be because those cities are tourist locations and are also highly densely populated. To bolster this argument, we can see more accidents happening during the daytime when most people prefer to travel to work or visit places.

However, this can be avoided by using fewer vehicles on the road and giving more preference to public transportation. Moreover, the rate of accidents has increased over recent years because of the increase in vehicles. It is noticeable that the low-severity accidents have increased in proportion to the accidents; this can be the result of increased safety standards of vehicles and the quality of roads. This means that even if the accidents increased, most are low severity.

Nevertheless, additional analysis should be made in those cities, as other reasons can be discovered with features not present in the data analyzed.