

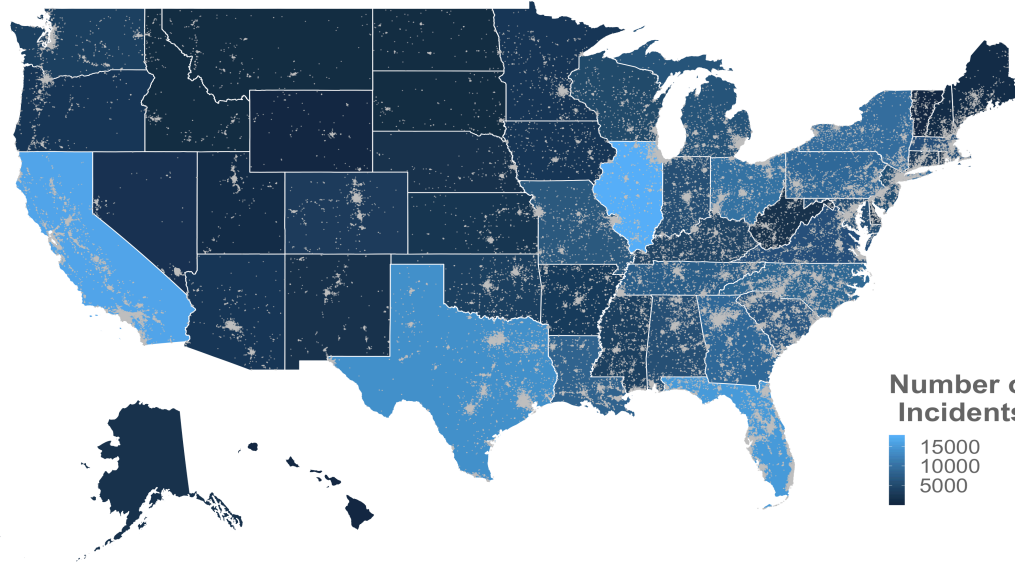
Data

The data used was provided by Kaggle (*Gun Violence Dataset*) and contained over 240,000 incidents spanning from January 2014 to December 2017.

Multiple variables were provided such as:

- Longitude and latitude of incident
- Day of incident
- State of incident
- Yearly total of incidents

For this particular study we are interested in geographical and temporal attributes of these incidents



Map

States with the most incidents are:

- Illinois
- California
- Texas

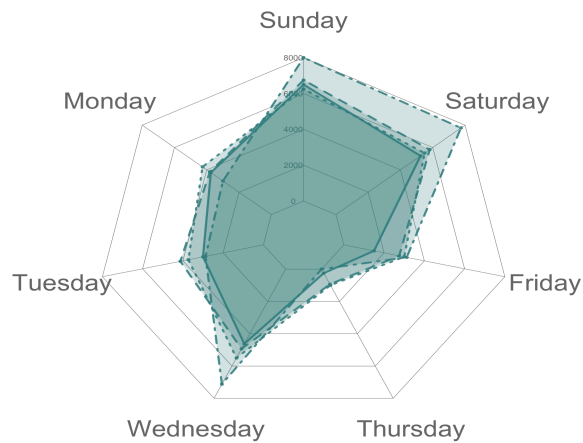
States with the fewest incidents are:

- Idaho
- Montana
- South Dakota

The grey specs are the exact location where a particular incident occurred. The clusters of grey represent large cities

Number of Incidents

15000
10000
5000



Day of Week

Elton John was quite correct in saying “Saturday Night is Alright (for Fighting)”, The Commodores were certainly mistaken when they sang “Easy like Sunday Morning”, at least when it comes to law enforcement having to deal with gun calls.

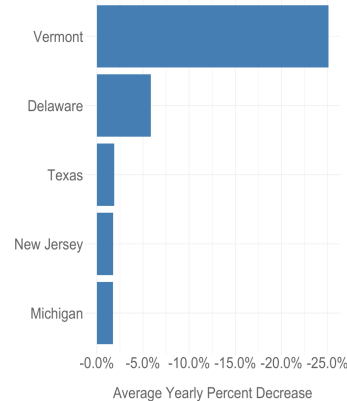
Most Incidents:

- Sunday

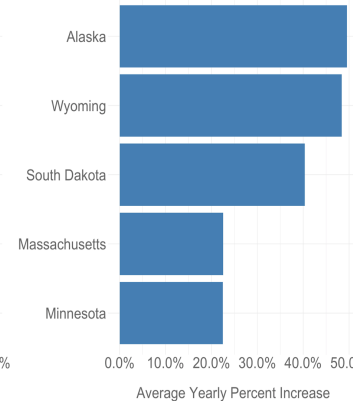
Fewest Incidents:

- Thursday

States with Largest Decrease in Incidents from 2014 to 2017



States with Largest Increase in Incidents from 2014 to 2017



Yearly Percent Decrease and Increase

It is important to note which states are decreasing in incidents and which are increasing in incidents.

Decreasing States:

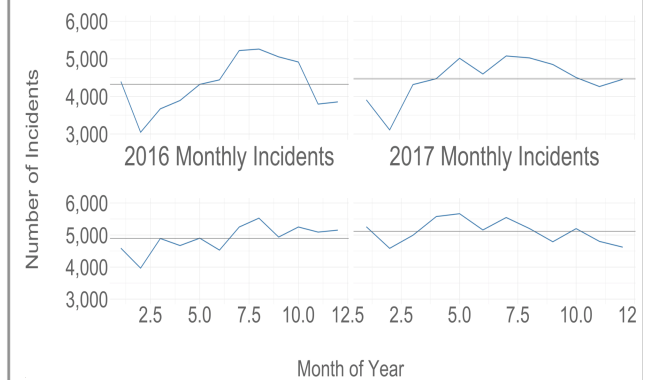
- Vermont
- Delaware
- Texas
- New Jersey
- Michigan

Increasing States:

- Alaska
- Wyoming
- South Dakota
- Massachusetts
- Minnesota

2014 Monthly Incidents

2015 Monthly Incidents



Yearly Incident Trends

Patterns between the years of 2014 to 2017:

- The beginning months of the year typically have less gun violence incidents
- The summer months contain a higher volume of gun violence incidents

We can also see that the average yearly number of incidents (horizontal black line) is increasing from 2014 to 2017.