

Analysis of the Impact of Hate Crimes on Police Shootings in the United States

Motivation

- Around 1000 people were killed every year
- Huge Protest
- Find out the possible reasons

Research Question

Do US states with higher hate crime rates also experience elevated rates of fatal police shootings?

Used Data

Victim's age	Victim's gender	Victim's race	Date of Incident (month/day/year)	City	State	Zipcode	Agency responsible for death	Cause of death	Criminal Charges?	Symptoms of mental illness?	Alleged Weapon (Source: WaPo and Review of Cases Not Included in WaPo Database)	Alleged Threat Level (Source: WaPo)	Fleeing (Source: WaPo)	Armed/Unarmed Status
Unknown	Male	Hispanic	2020-12-31	Miami	Florida	33133.0	Miami Police Department	Gunshot	No known charges	No	gun	attack	Not fleeing	Allegedly Armed
39	Male	White	2020-12-31	Beaumont	Texas	77707.0	Beaumont Police Department	Gunshot	No known charges	Yes	gun	attack	Not fleeing	Allegedly Armed
63	Male	Unknown race	2020-12-31	Phoenix	Indiana	46563.0	Marshall County Sheriff's Department	Gunshot	No known charges	No	vehicle	attack	Car	Vehicle
23	Male	Black	2020-12-30	Minneapolis	Minnesota	55407.0	Minneapolis Police Department	Gunshot	No known charges	No	gun	attack	Not fleeing	Allegedly Armed
37	Male	White	2020-12-30	Wichita	Kansas	67203.0	Wichita Police Department	Gunshot	No known charges	No	gun	attack	Foot	Allegedly Armed

STATE_NAME	INCIDENT_DATE	TOTAL_OFFENDER_COUNT	OFFENDER_RACE	VICTIM_COUNT	OFFENSE_NAME	TOTAL_INDIVIDUAL_VICTIMS	LOCATION_NAME	BIAS_DESC
Alaska	2013-02-15 00:00:00.000000	1	Unknown	1	Aggravated Assault	1.0	Highway/Road/Alley/Street/Sidewalk	Anti-Black or African American
Alaska	2013-03-01 00:00:00.000000	1	White	2	Intimidation	2.0	Highway/Road/Alley/Street/Sidewalk	Anti-American Indian or Alaska Native
Alaska	2013-06-07 00:00:00.000000	4	White	1	Burglary/Breaking & Entering	1.0	Residence/Home	Anti-Black or African American
Alaska	2013-06-17 00:00:00.000000	1	White	1	Simple Assault	1.0	Highway/Road/Alley/Street/Sidewalk	Anti-Black or African American
Alaska	2013-06-20 00:00:00.000000	1	White	1	Intimidation	1.0	Highway/Road/Alley/Street/Sidewalk	Anti-Black or African American

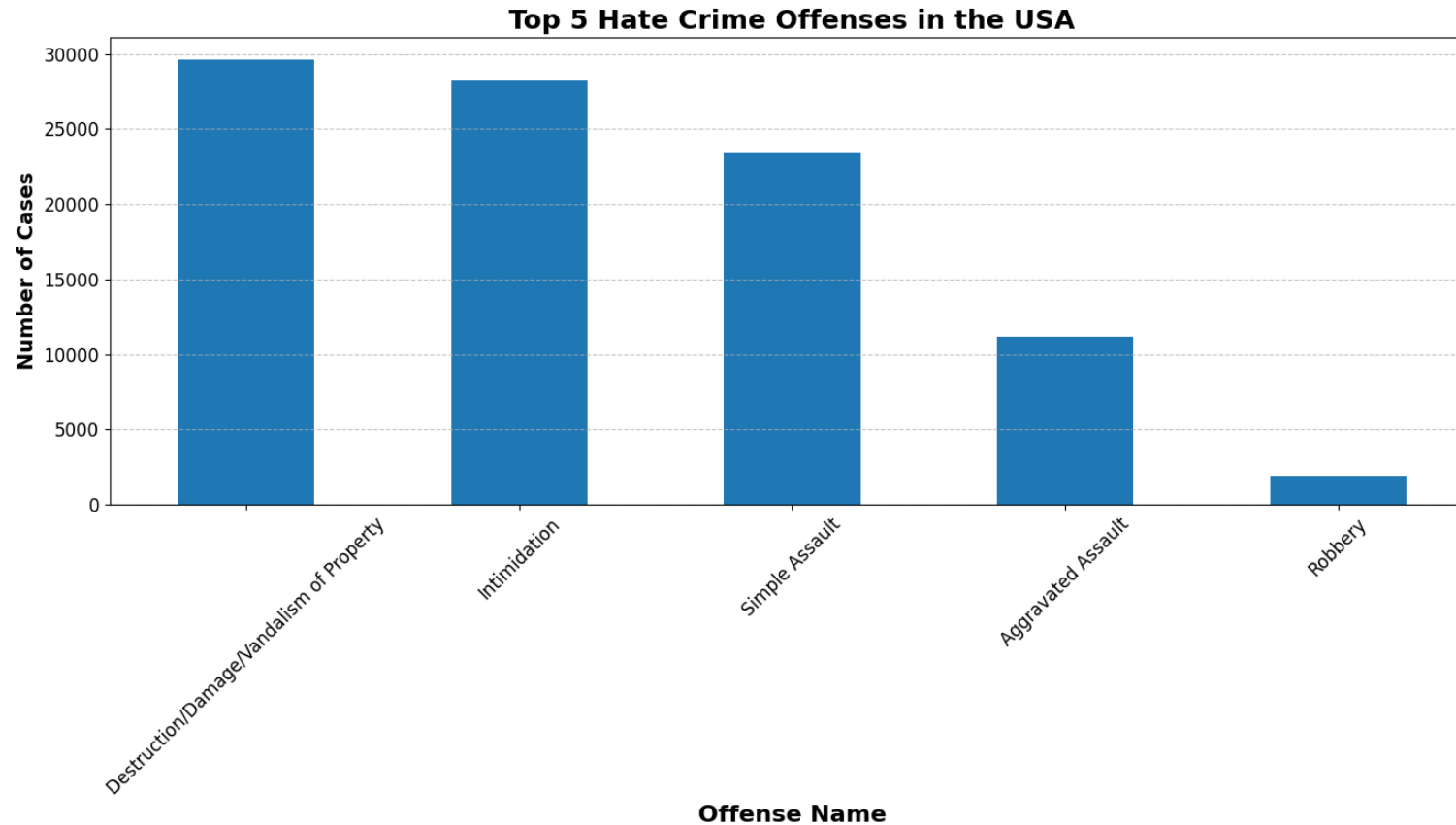
U.S Police Shootings 2013- 2020 [CC0: Public Domain license] FBI Hate Crimes in the USA (1991–2020)[U.S. Government Works]

Methodology

- Exploratory Data Analysis (EDA)
- Correlation Analysis

Exploratory Data Analysis (EDA)

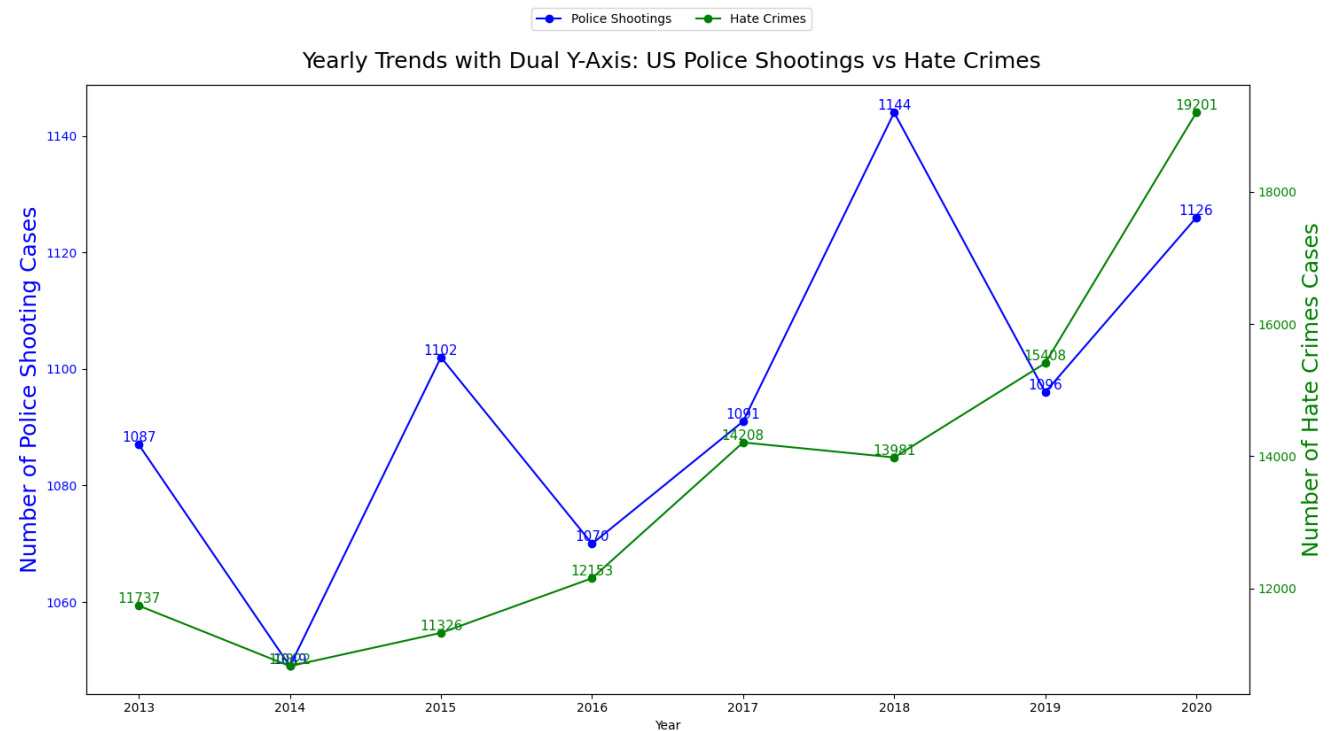
Top 5 Hate Crimes



Most of the crimes are related to property

Yearly Analysis

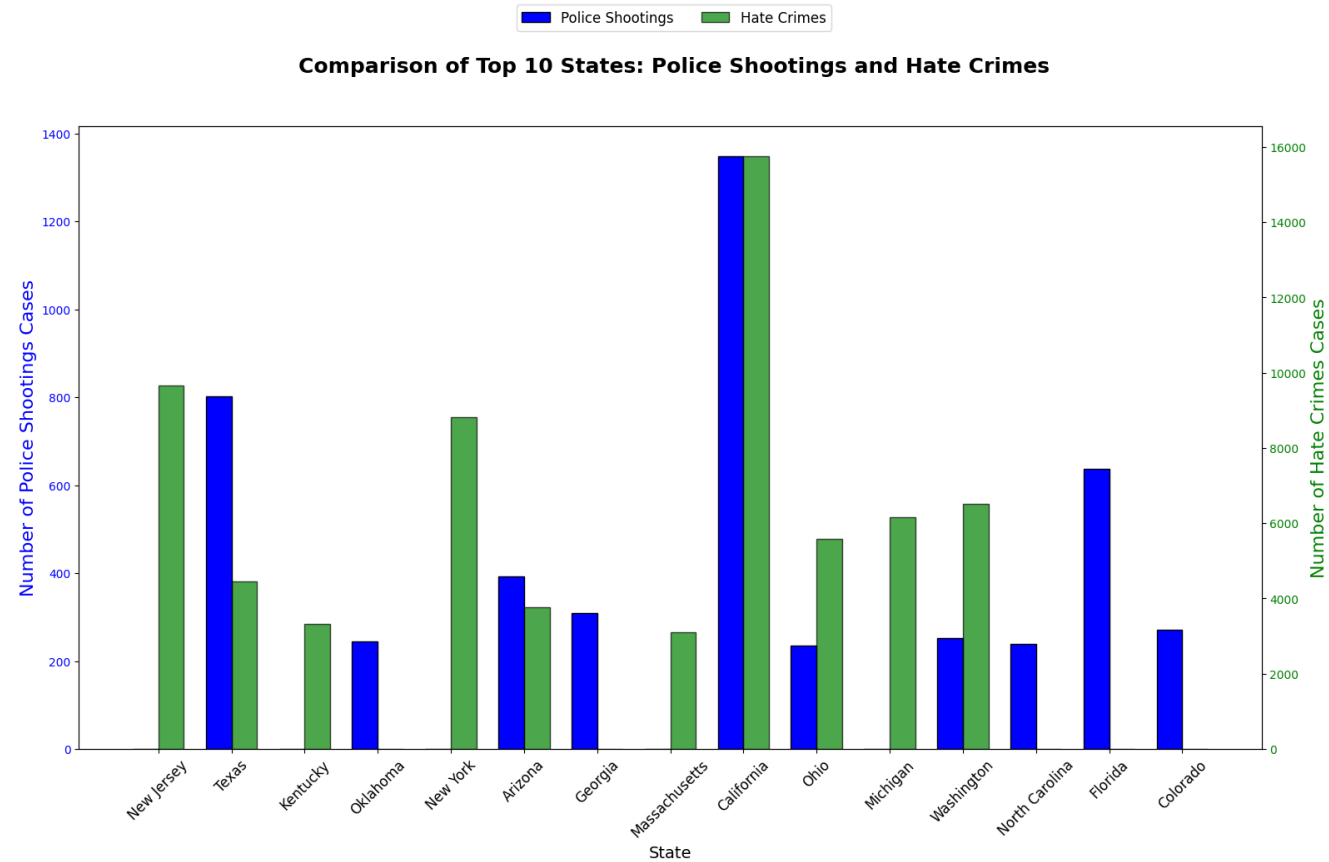
- Hate crimes consistently rise after 2018, peaking in 2020.
- Police shootings peak in 2018 but show variability over the years.



Top States: Police Shootings vs. Hate Crimes

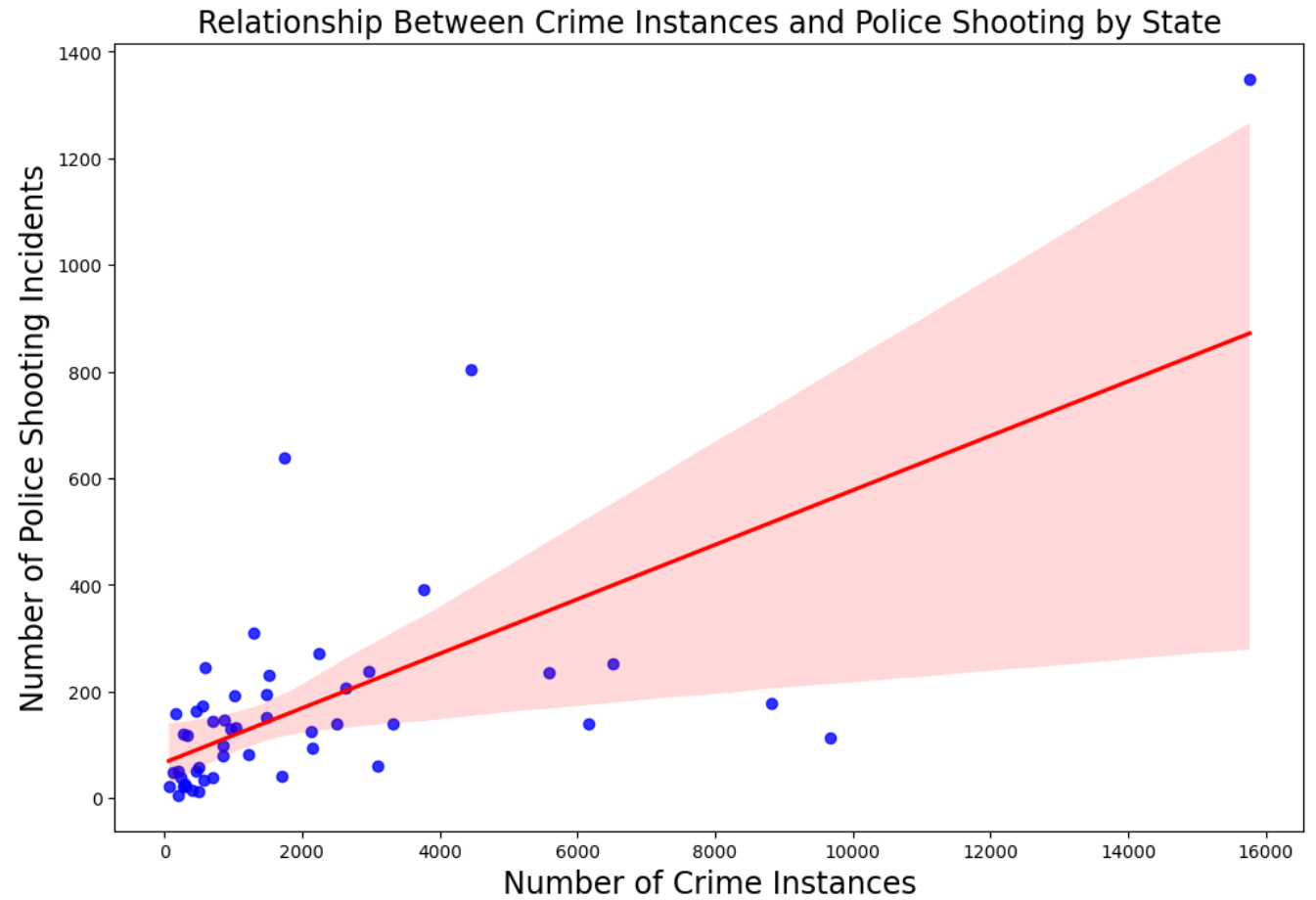
- **California** leads in both police shootings and hate crimes (16,000 hate crime cases).

- States like **New York** and **Michigan** show high hate crimes but minimal police shootings.



Correlation Analysis

Moderate Positive Correlation
(0.67)



Result

- **California** leads in both police shootings and hate crimes
- Moderate Positive Correlation
- Other factors like socio-economic and demographic aspects may also contribute.

References

- James Vandenberg. (2013–2020). US Police Shootings Dataset. Retrieved from <https://www.kaggle.com/datasets/jamesvandenberg/us-police-shootings-20132020> [2]
- Jonathan Revere. (1991–2020). FBI Hate Crimes in USA Dataset. Retrieved from <https://www.kaggle.com/datasets/jonathanrevere/fbi-hate-crimes-in-usa-19912020> [3]
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