

A photograph of a woman in a long, patterned dress standing on a city street, facing a line of riot police. The police are wearing helmets with visors and carrying shields. The scene is set in an urban environment with trees and buildings in the background. The image has a dark, semi-transparent overlay.

Police Militarization & Civilian Fatalities

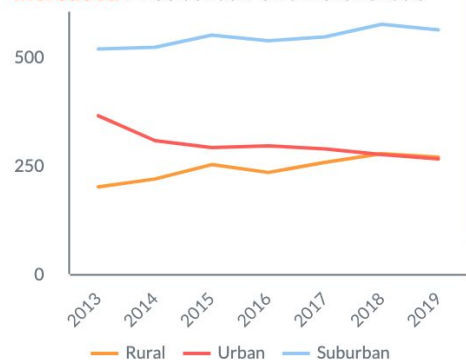
By Ray Ruzzo

Serve and Protect?

Fatal shootings by police officers have been getting greater media attention and fueling protests around the country.

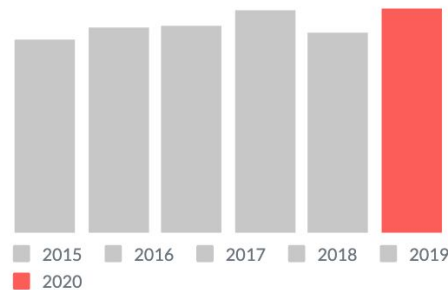
Do purchases from the DOD increase the likelihood of using fatal force against civilians?

Police killings have decreased in Cities but **increased** in Suburban and Rural areas



Killings by Police by Zipcode Population Density

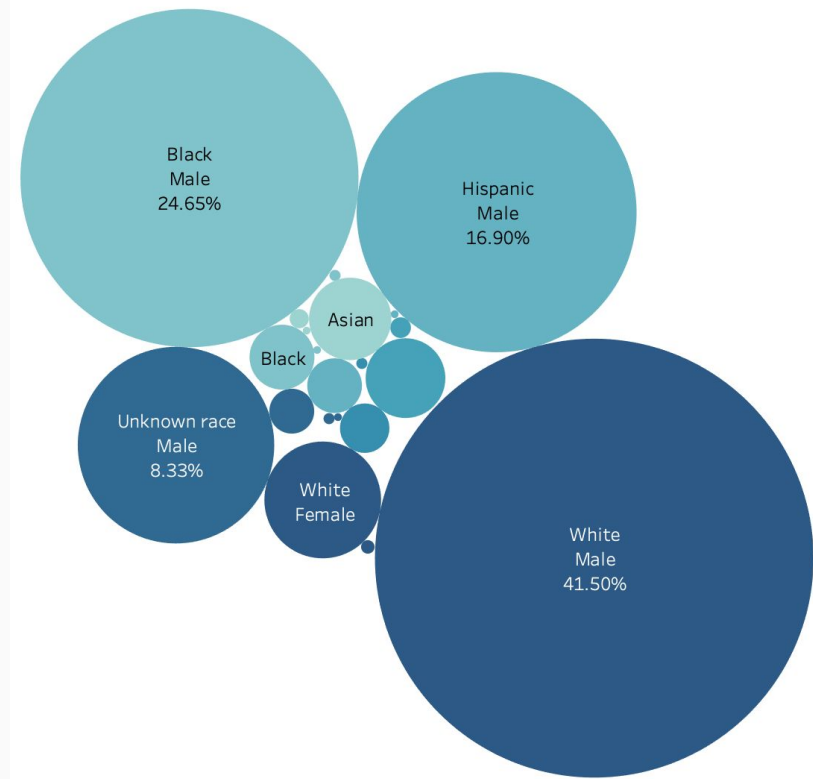
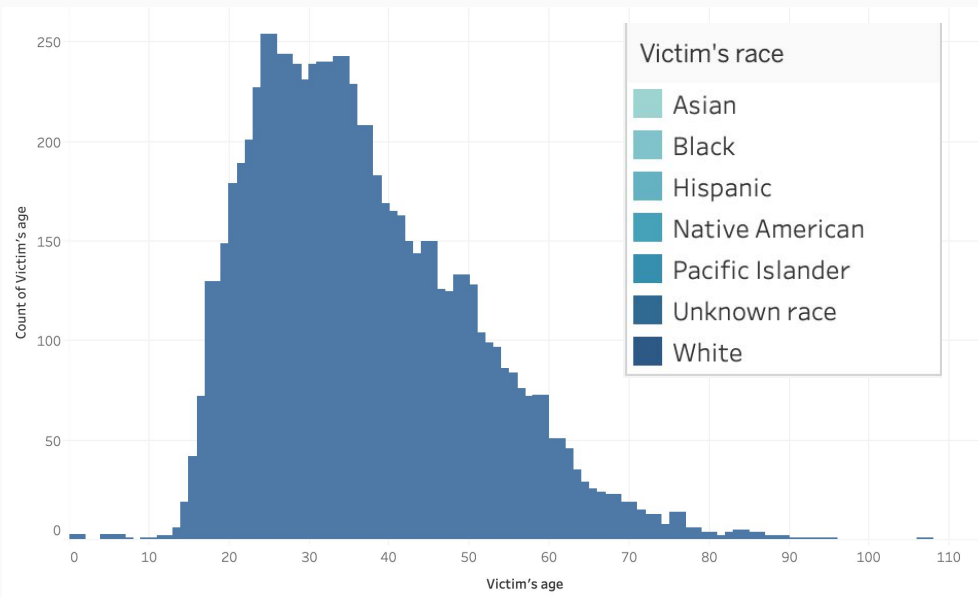
Police killed **more** people in the first half of 2020 than they did during this period in past years



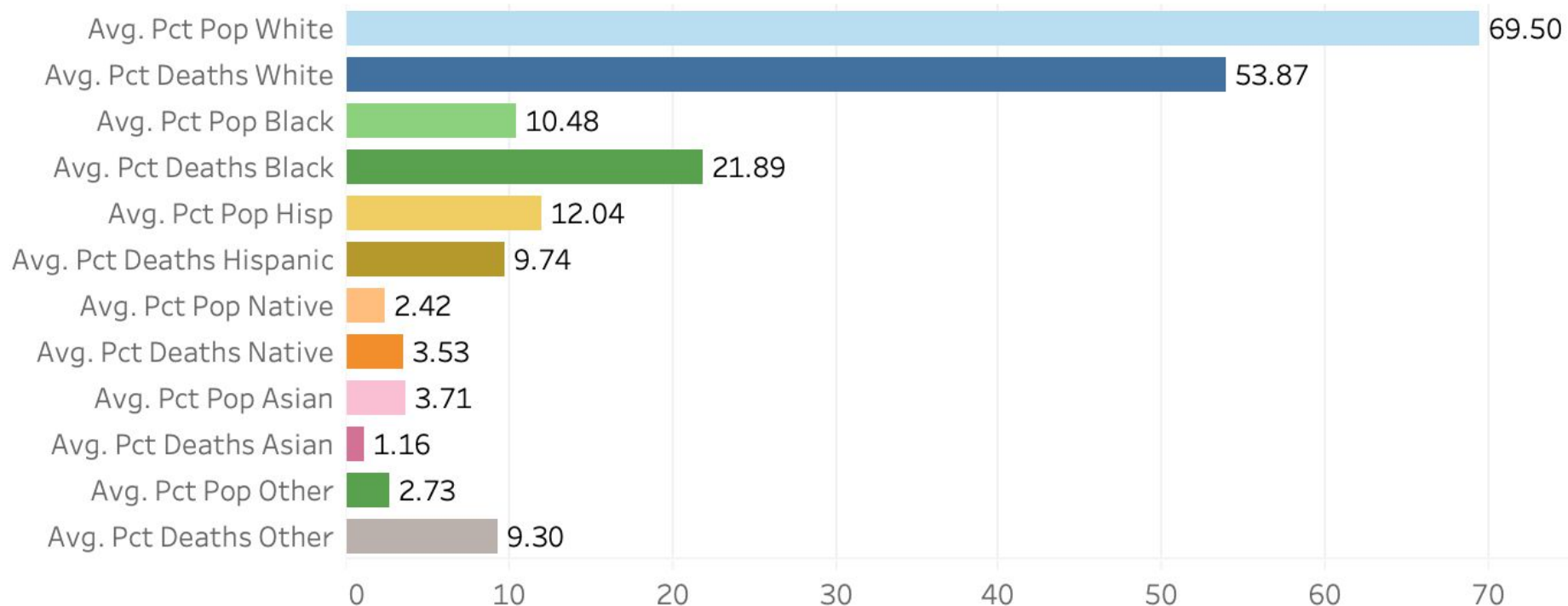
Killings by Police from 1/1 - 6/30 of Each Year

Graphics from MappingPoliceViolence.org

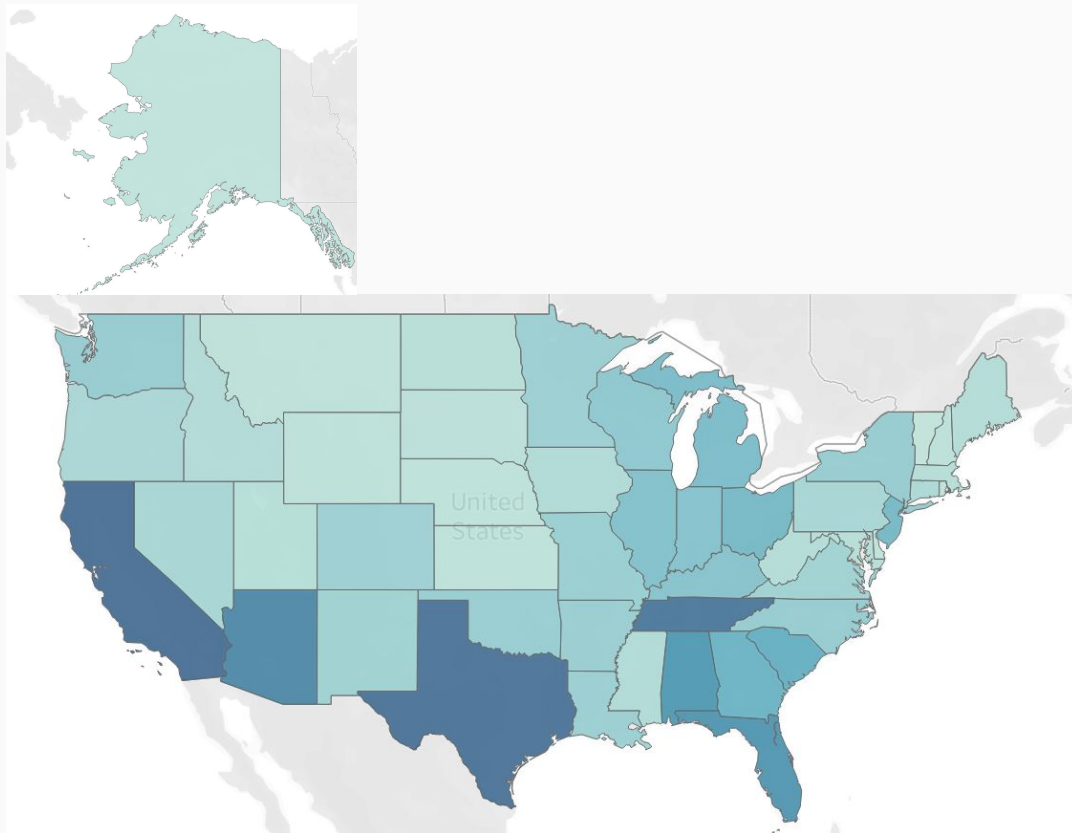
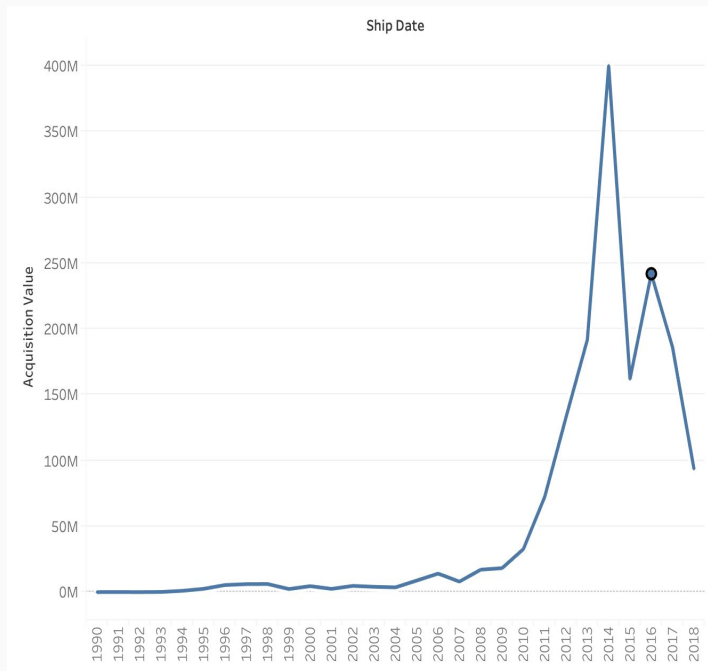
Who is most at risk of being killed by police?



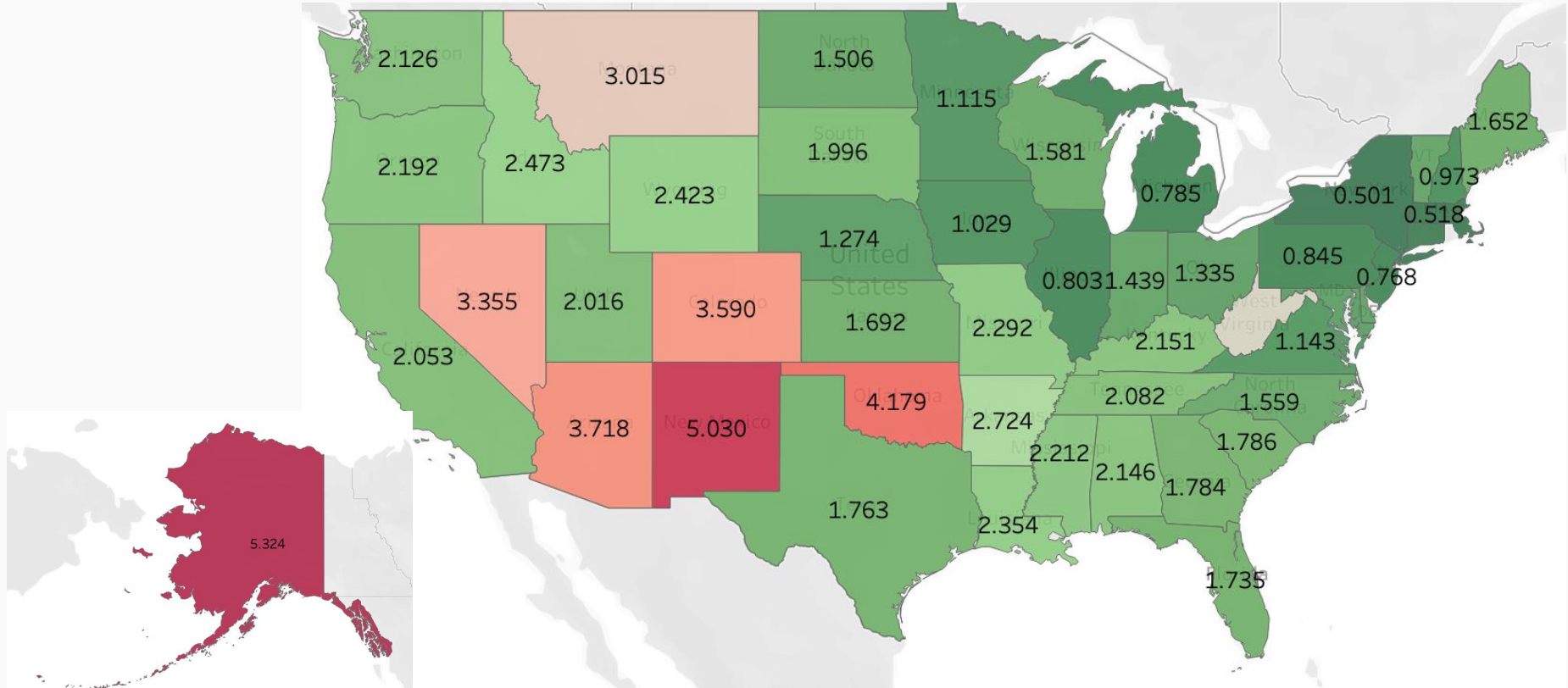
Percentage of Killings/Race vs Percentage of Population/Race



Which States are Spending on DOD equipment and When



Where are the States with the Highest Per Capita Police Killings



Modeling Considerations

Predicting Deaths Per Capita
through Regression to determine
weight of factors

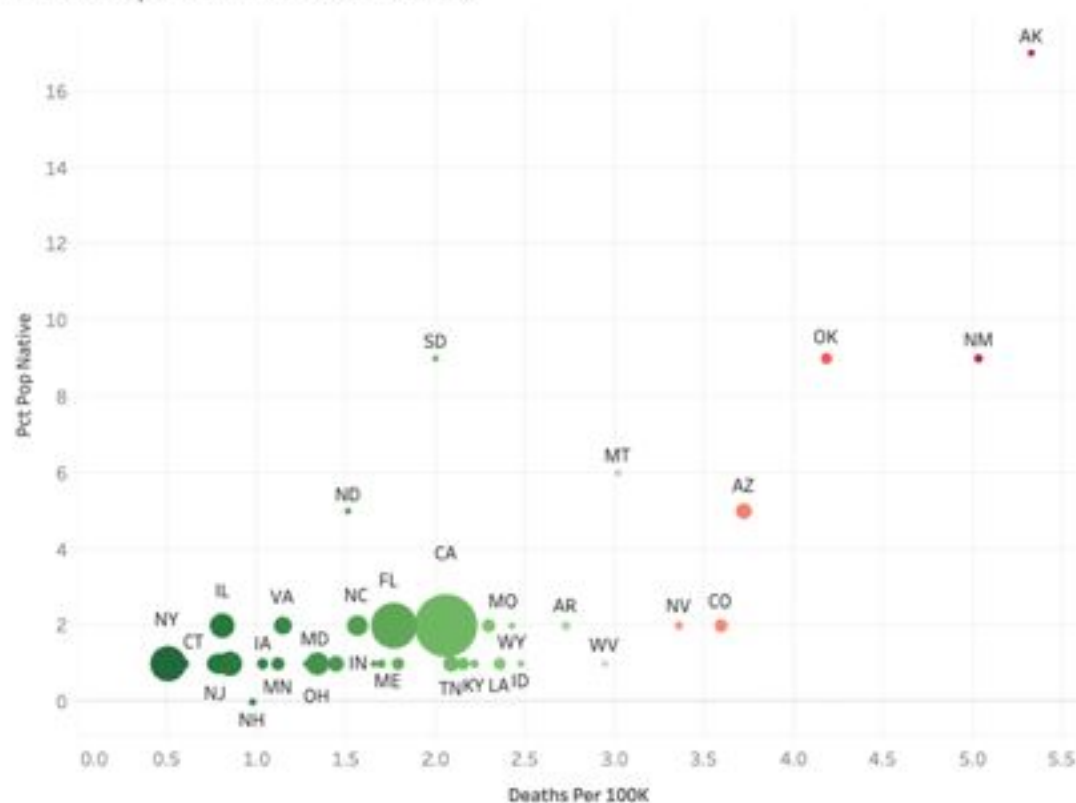
Determine how purchases from the
DOD influence the prediction of per
capita police killings.

Is it more or less influential than
racial factors?

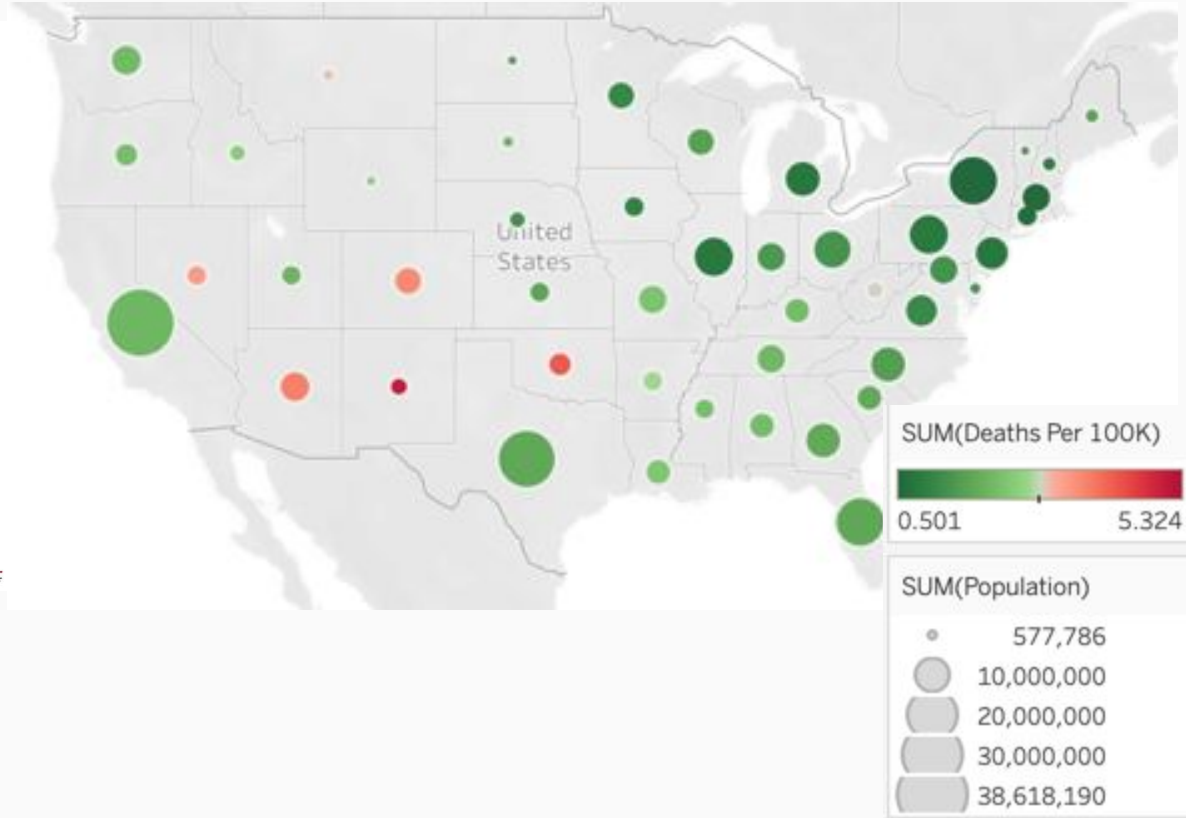
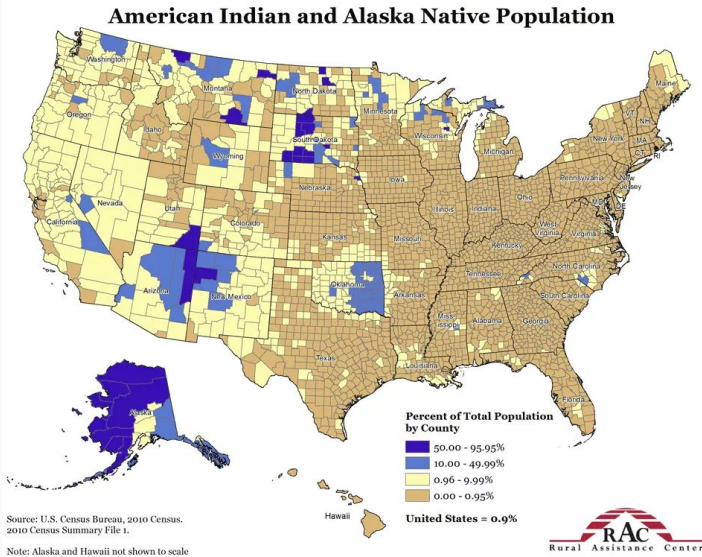
Results

	0	Name
f18	0.530638	pctPopNative
f16	0.152446	pctPopAsian
f2	0.053127	numStations
f10	0.042837	pctDeathsNative
f7	0.033530	pctDeathsBlack
f12	0.033360	pctDeathsOther
f8	0.031251	pctDeathsWhite
f19	0.028683	Population
f14	0.021564	pctPopBlack
f0	0.019192	Quantity
f1	0.011087	Acquisition Value
f3	0.010072	exp per station

Native Population vs Total Deaths



Results Native Population Density - Police Killings Per Capita



Next Steps

Following this high level analysis, we can begin to look into more detailed factors.

This knowledge can be used to help states and cities distribute resources to effectively reduce fatalities at the hands of police

Specificity
City or County Level Analysis

Socioeconomic
Include education,
unemployment and income data

Climate
Do extreme temperatures affect
police behavior?