Panda Bytes

Brant

Collin

David

Kat

Walter

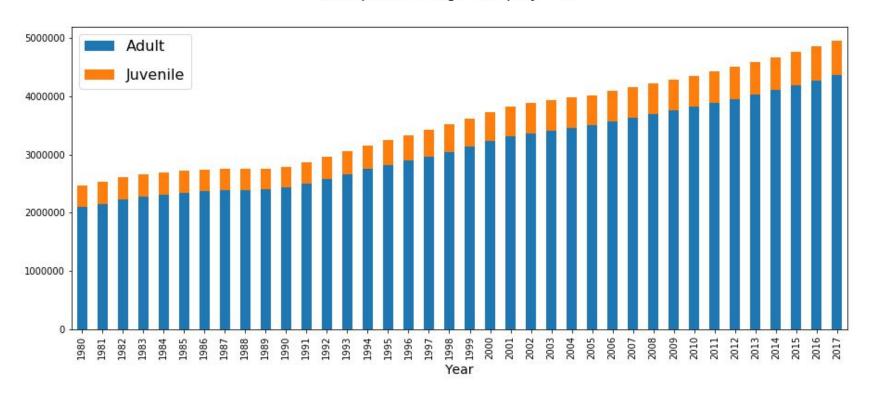
Impact of Marijuana Legalization

Population Growth and Crime comparisons before and after legalization.

Data published by the Colorado Bureau of Investigation.

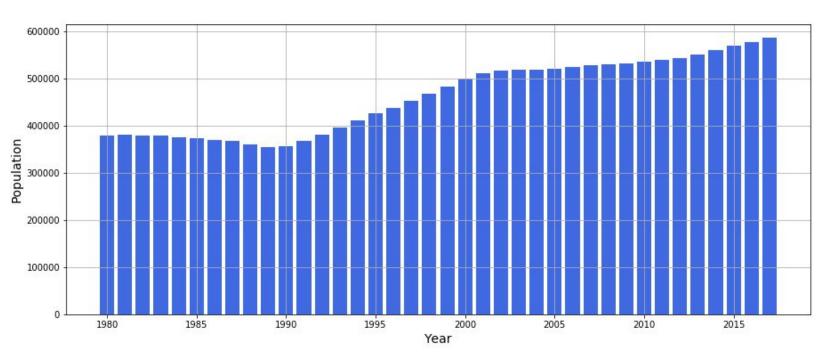
Population Growth Over Time

CO Population - Age Group by Year

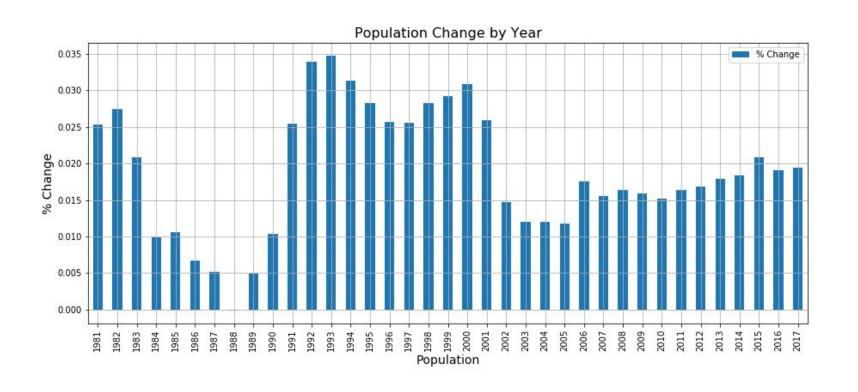


Youth Population

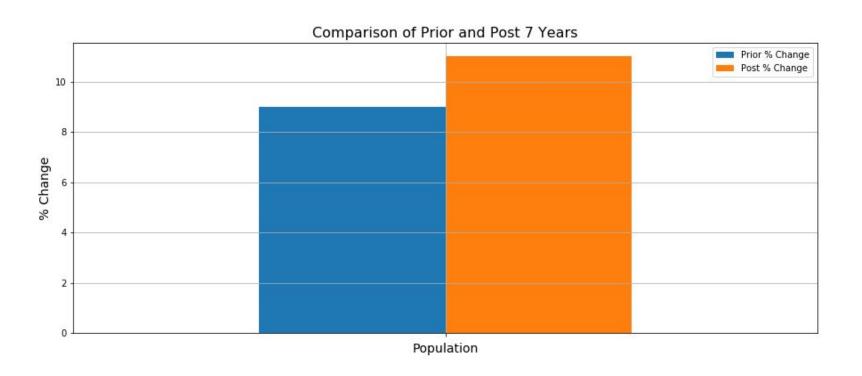
Youth Population by Year



Population Percent Change Year over Year

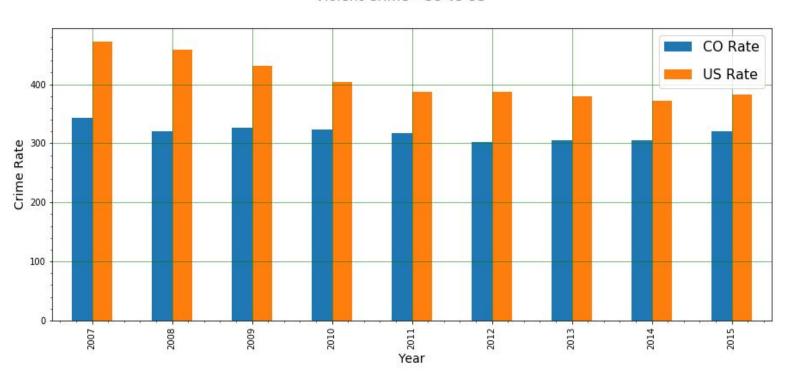


Population Trends Before and After



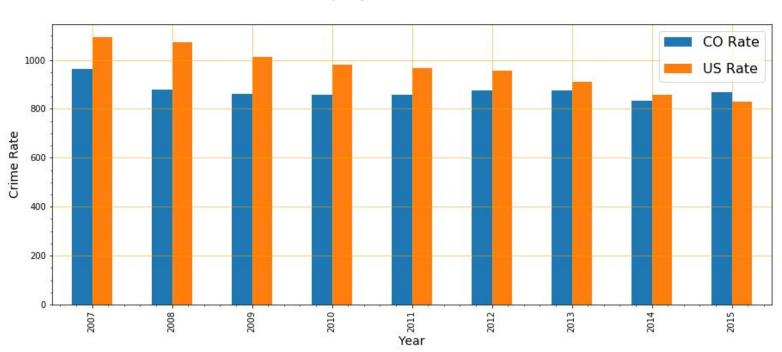
Crime Rate - Statewide vs US

Violent Crime - CO vs US



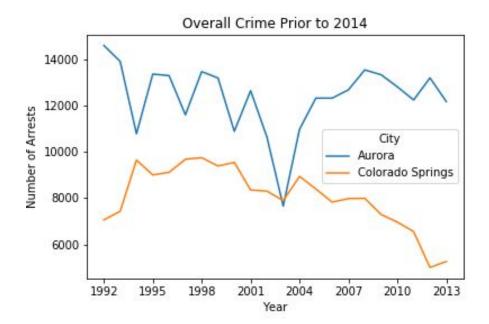
Crime Rate - Statewide vs US

Property Crime - CO vs US



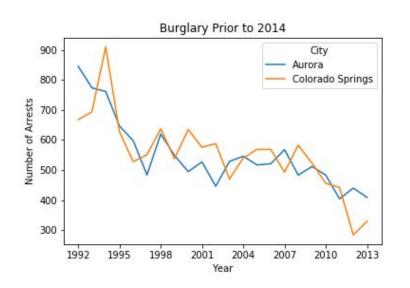
• **Data Rage:** 1992 - 2013

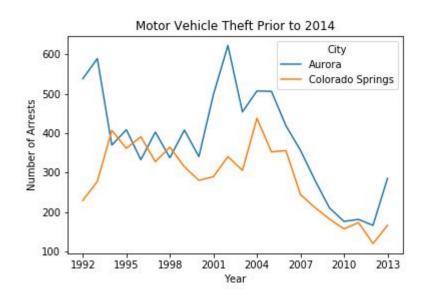
 Crimes: Aggravated Assault, Arson, Burglary, Drug Violations, Forcible Rape, Larceny, Motor Vehicle Theft, Robbery, and Murder



• **Data Rage:** 1992 - 2013

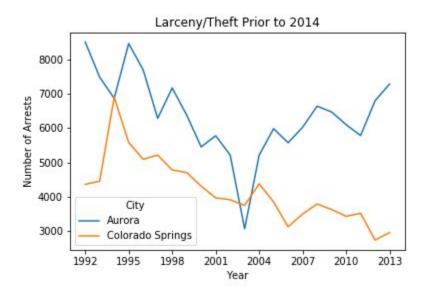
• Crimes: Burglary, Motor Vehicle

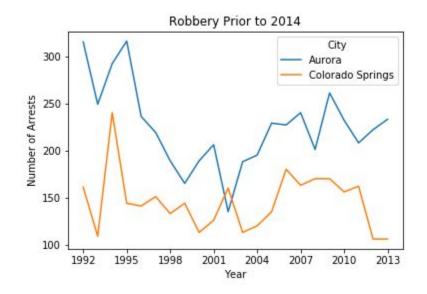




• **Data Rage:** 1992 - 2013

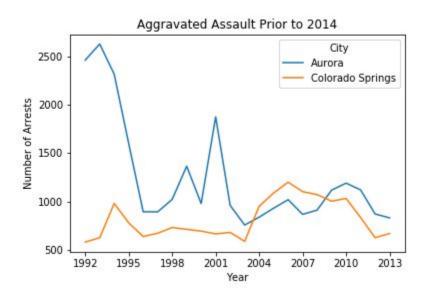
• Crimes: Larceny/Theft, Robbery

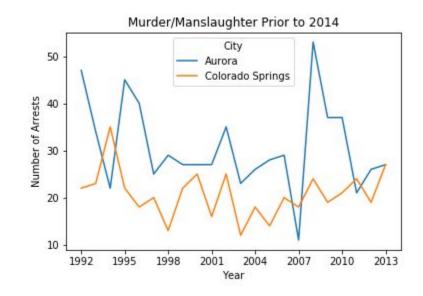




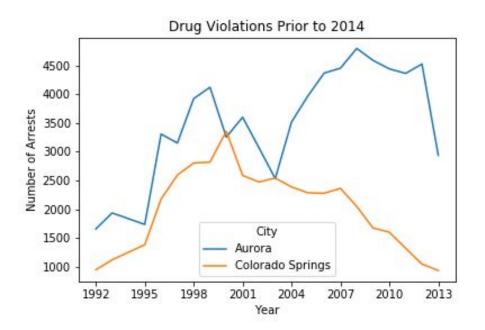
• **Data Rage:** 1992 - 2013

Crimes: Aggravated Assault, Murder/Manslaughter

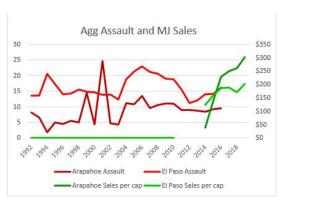


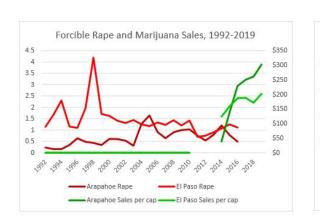


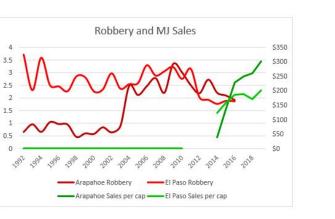
Data Rage: 1992 - 2013Crimes: Drug Violations

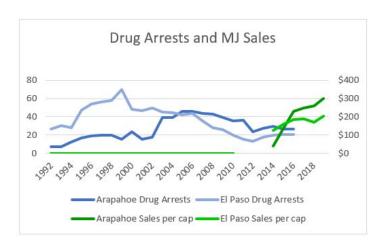


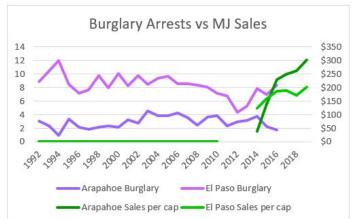




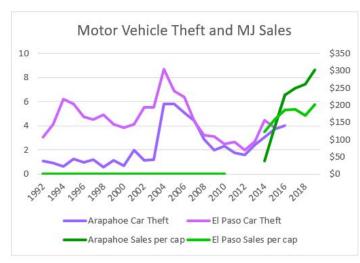


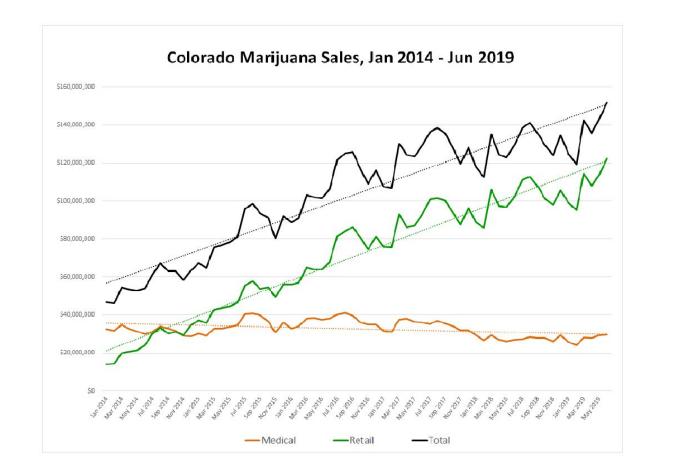


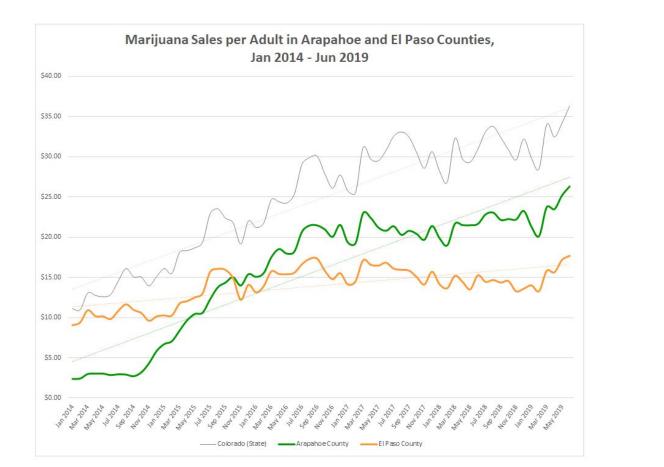












Censored Medical Marijuana Data, Jan 2014 - June 2019



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Westington

Crime Trends before and after Marijuana Legalization in El Paso and Teller Counties

Marijuana has been legal in Colorado since 2011. El Paso county and Teller county only allow medical marijuana licensing. The task for this project is to see how the crime rates have changed and what crime trends have been predicted for these two counties after marijuana became legal by studying Crime Statistics

All crimes are grouped into three categories:

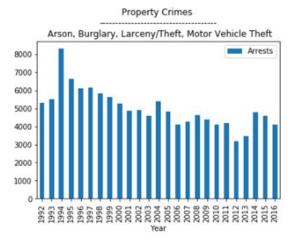
Property – 'Arson' 'Burglary' 'Larceny/Theft' 'Motor Vehicle Theft'

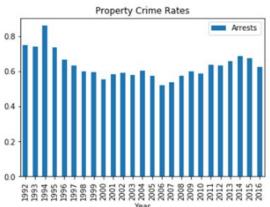
Violent – 'Aggravated Assault' 'Forcible rape' 'Murder/Manslaughter' 'Robbery'

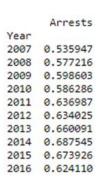
Drug – 'Drug Violations'

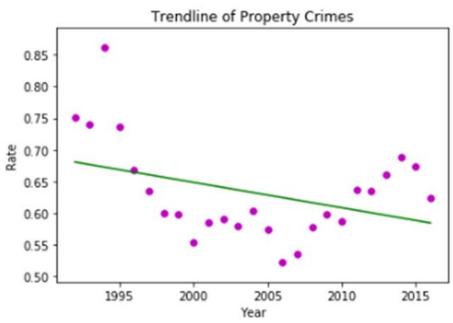
Due to the population increases every year, that will be true comparisons to predict the trends for property crimes, violent crimes, and drug crime by looking at percentage changes among these three categories.

Property – 'Arson' 'Burglary' 'Larceny/Theft' 'Motor Vehicle Theft'



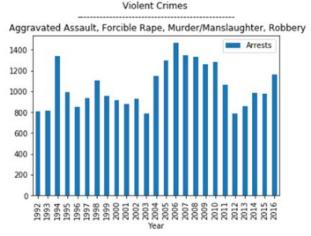


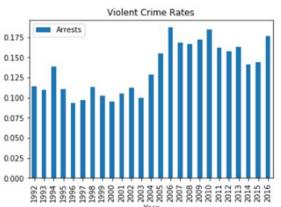


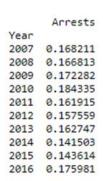


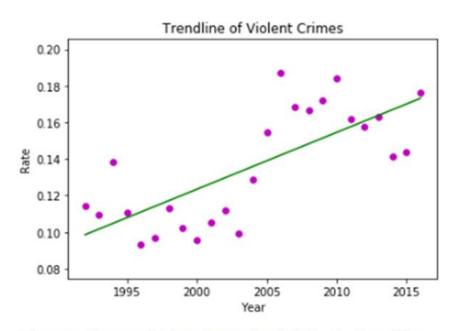
The trendline prediction shows the property crimes will be going down. It may be because getting a medical card is relatively onerous so medical marijuana sales continue to bottom out as a result of reducing the property crimes in the El Paso and Teller counties.

Violent - 'Aggravated Assault' 'Forcible rape' 'Murder/Manslaughter' 'Robbery'



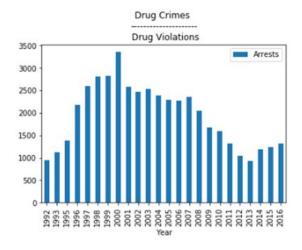


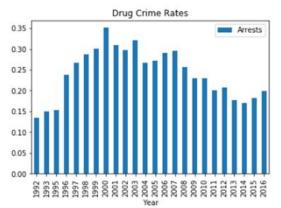


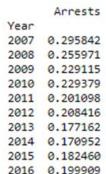


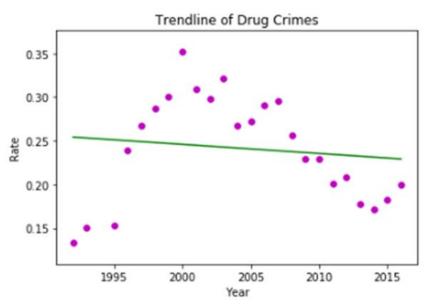
The trendline prediction shows the violent crimes will be going up. It may be because more and more people go to recreational stores in other counties for their cannabis needs and cause violent crimes after they consume marijuana.

Drug - 'Drug Violation'









The trendline prediction shows the drug crimes will be slowly going down. It may be because marijuana legalization is driving people to buy recreational marijuana in other counties without violating the law in the El Paso and Teller counties.

Summation

Was Colorado population impacted by the legalization of Marijuana?

There did not appear to be be any change in population growth or demographic.

How has the legalization of Marijuana impacted crime rates?

Overall, crime rates in Colorado compare to the US as a whole without significant variation.

Is there a difference in crime between cities that do only sell Medical Marijuana vs Recreational Marijuana?

There did seem to be an indication that areas that only sell medical marijuana showed a downward trend in crime. Areas where recreational marijuana is sold, crime rates are trending up but not in an amount that would indicate a direct correlation with the legalization of marijuana. More data will be needed in order to develop a more firmer conclusion.