

Data Analytics Portfolio

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Project Goal

Provide executive-level insight on where crimes are occurring and the types of crimes in those areas for Colorado using 2022 data.

Where is the most crimes concentrated?
What type of crimes do local, county, and special assignment agencies respond to?

Finished Products:

[CLICK HERE](#)

[Python Codes](#)

Key Skills



Analytical Insights
Charts & Graphs
Data Cleaning
Data Visualization
Descriptive Analysis
Mapping
Python
Tableau

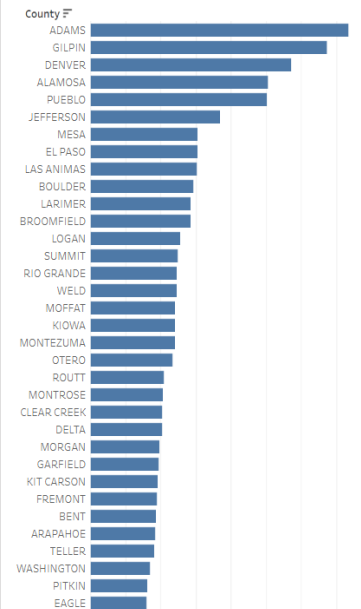
Simple but Effective Visualizations

Crime Rate Per 1,000 Capita: 2022

NOTE: Arranged by highest crime rate per capita to lowest. Please hover or click on the individual counties for more details.

Analyst Note: Despite having low estimated population, Gilpin County has a high crime rate per capita, likely due to its proximity to Adams and Denver County.

Data Source: Colorado Bureau of Investigations, obtained on November 22, 2023. (<https://coloradocrimestats.state.co.us/tops/>)

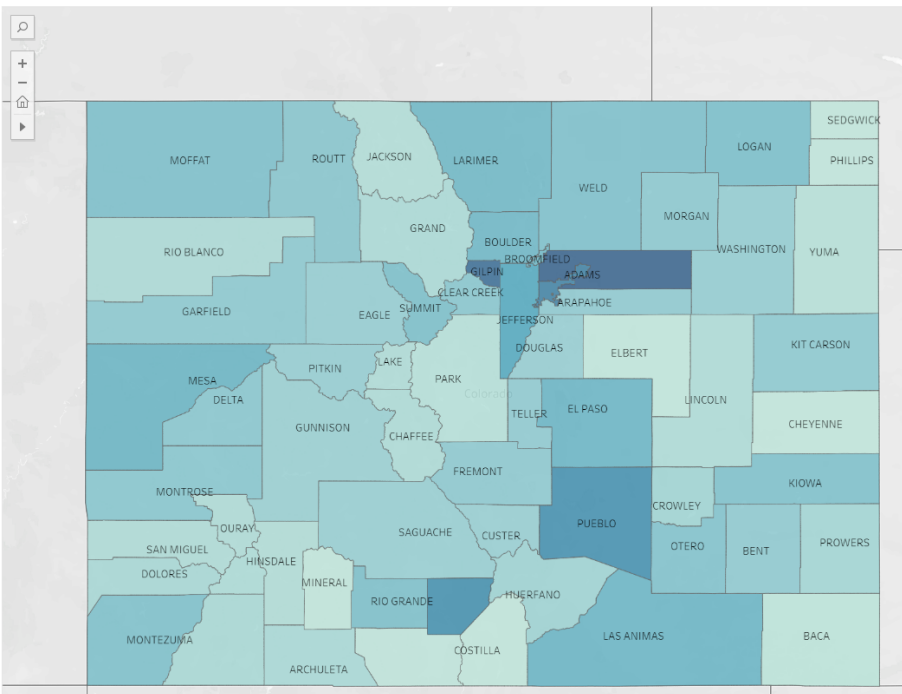


Crime Rate Per 1,000 Capita: 2022

NOTE: The darker the county, the higher the crime rate. Please hover or click on the individual counties for more details.

Data Source: Colorado Bureau of Investigations, obtained on November 22, 2023. (<https://coloradocrimestats.state.co.us/tops/>)

Map Source: Colorado Department of Public Health and Environment, 2023 (<https://data.cdph.eoandata.arcgis.com/datasets/colorado-county-boundaries/explore>)

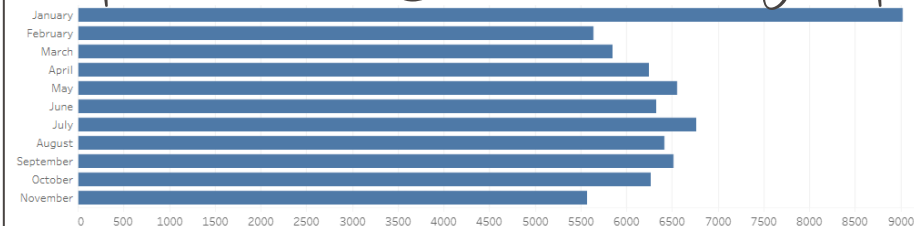


Adams County has the most crime per capita, followed by Gilpin County, then Denver County.

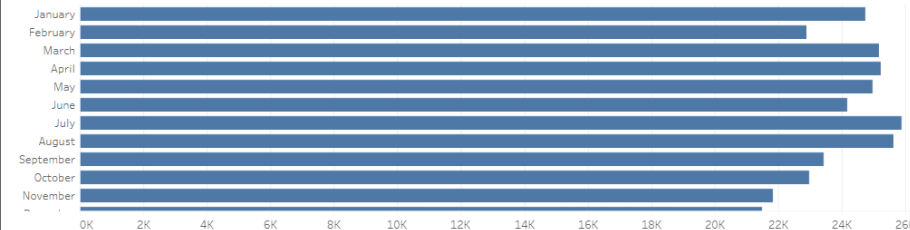
Simple but Effective Graphs

Breaking down figures by month help agencies plan for the upcoming year.

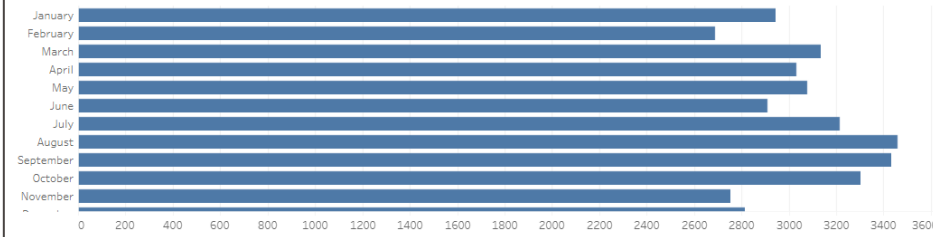
Crime Against Persons by Month: 2022



Crime Against Property by Month: 2022



Crime Against Society by Month: 2022



Limitation: As we are only looking at 1 year's worth of data, a forecast cannot be generated.



Key Takeaways

Analyst Interpretation

Summary of Results

- Adams County has the most crime per 1,000 capita (147.0)
- Crime Against Property made up 72% of all crimes in 2022, 18% were Crime Against Person, and 9% were Crime Against Society.
- Local Police Departments responded to 86% of all crimes in 2022, the Sheriff's Office responded to 13%, and Special Assignments responded to 1%.

Limitations

- State agencies' response was omitted due to the way the data is collected – it is not broken down by county like the other agency types were.

Further Analysis

- Currently a high-level overview, so it'd be interesting to see these dive deeper.
- Cover a longer period of time (e.g., 2018-2022)



Thanks!

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