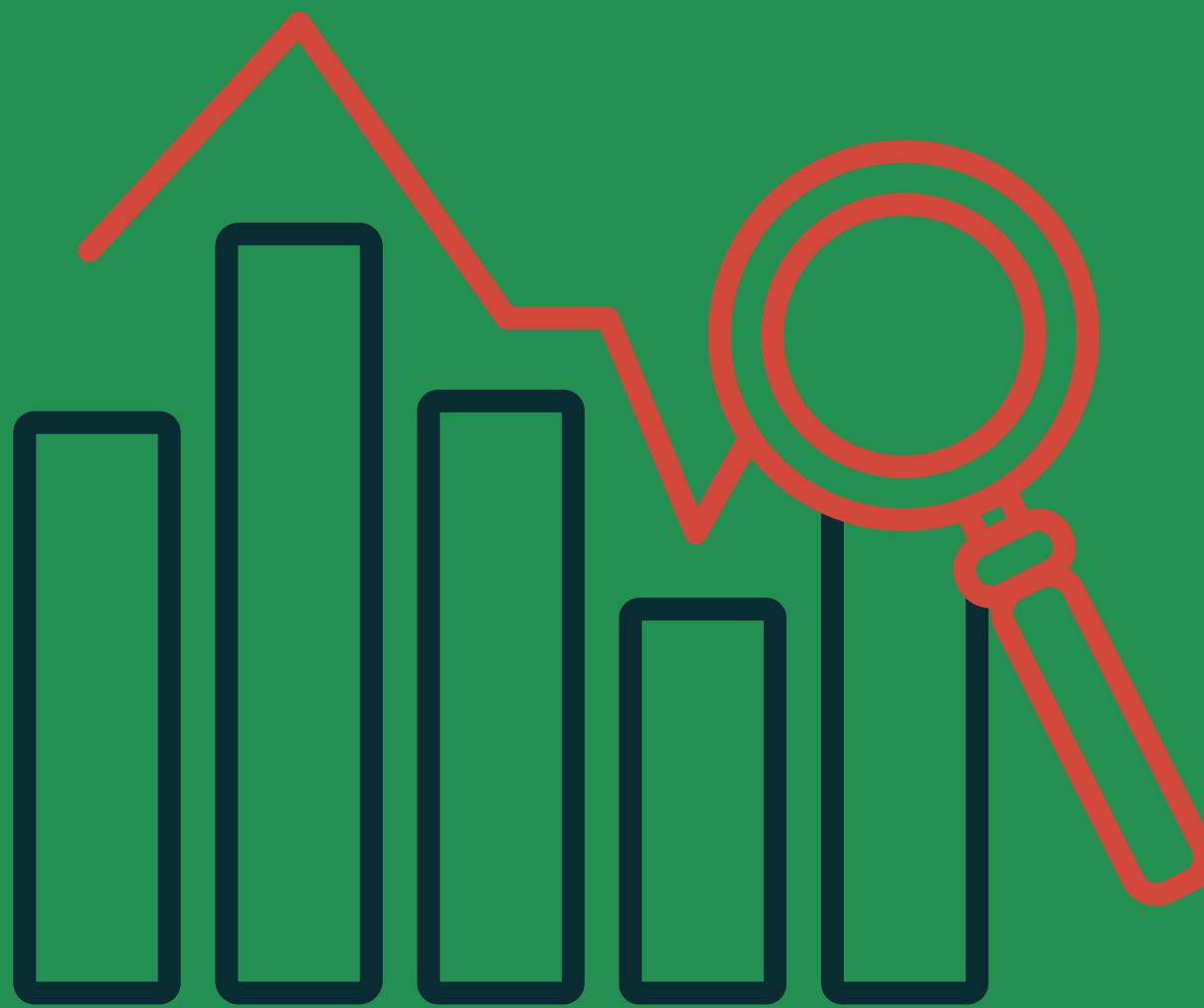


Austin Crime Clearance Rates

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The Data



- We are looking at all crime data in Austin, Texas over the year 2016.
- After cleaning our data, we were left with 34,884 rows of data.
- Our data included clearance status, date, type of crime as defined by the FBI and APD, and Location.

Our Goal:

A photograph of the Austin City Hall building, featuring its iconic gold dome and classical architecture. A Texas state flag flies from a pole on the left side of the building.

Our goal is to analyze how various factors affect clearance rates of crimes in Austin.

Overall Clearance Rate Percentages

84%

Not Cleared

14%

Cleared

2%

Still Open

General Trends



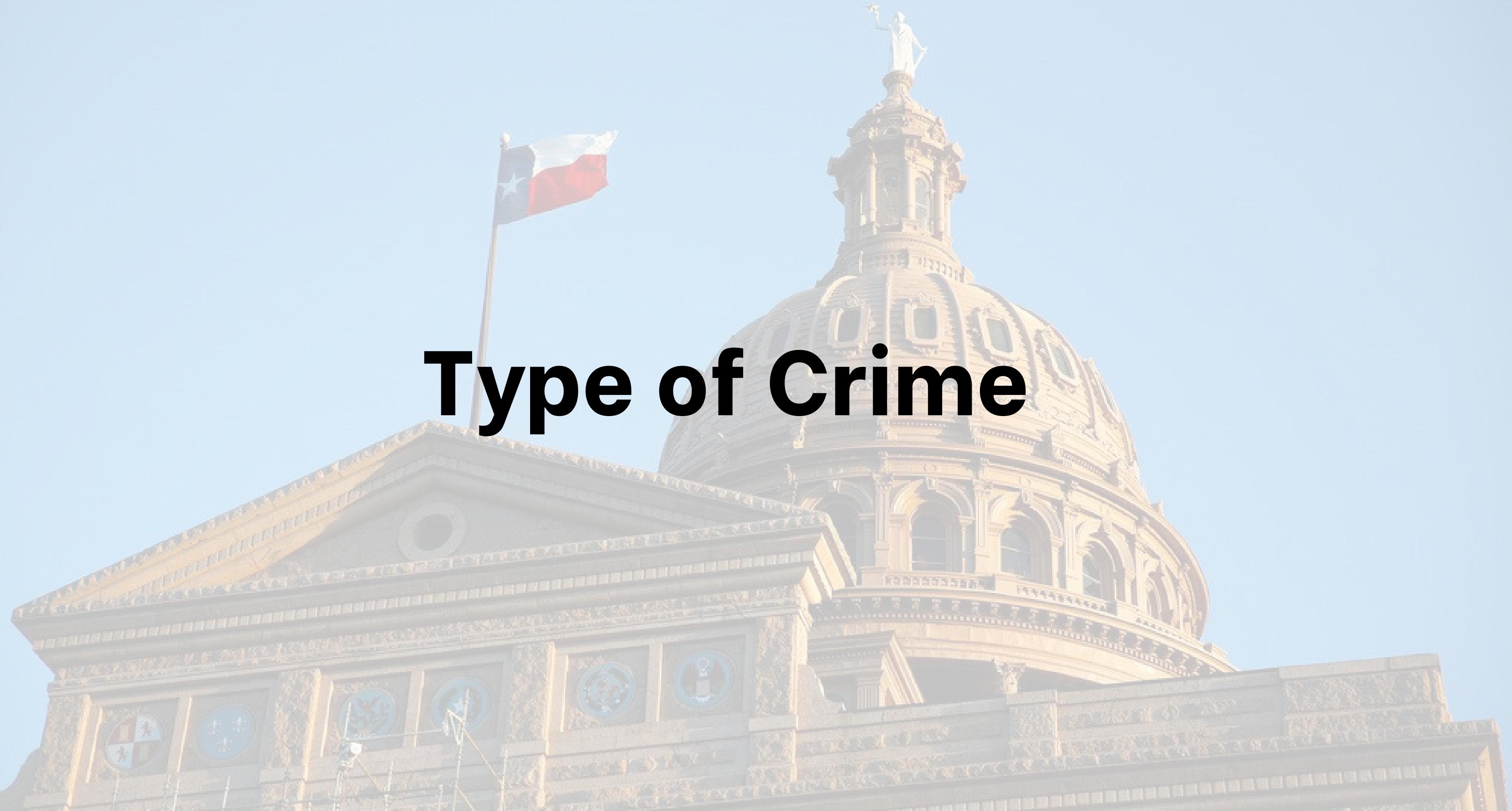
- Overall, most crimes were not cleared
- Murder had the highest clearance rate
- Theft had the lowest clearance rate
- 78741 (E. Riverside) had the highest crime count overall
- 78753 (35 & W. Braker) had the most theft
- The winter and summer months had the most non-cleared crimes

Tool: Colab Notebook and Github



We cleaned and analyzed our data using python on a Colab Notebook. We then shared our work on Github for public viewing.

Type of Crime



Overall Crime Statistics

34,884 TOTAL CRIMES IN 2016

Theft 71%

Burglary 14%

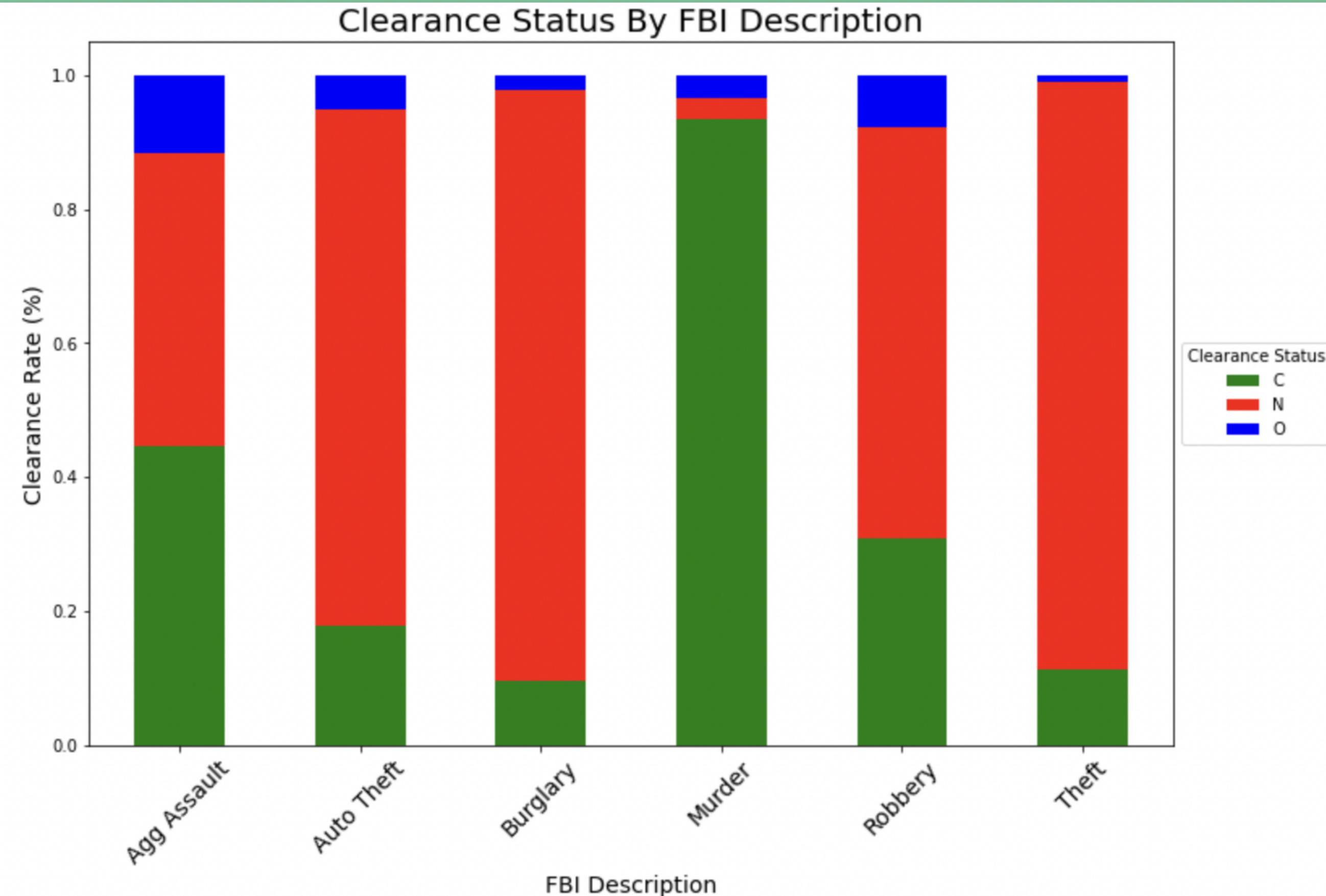
Agg Assault 6%

Auto Theft 6%

Robbery 3%

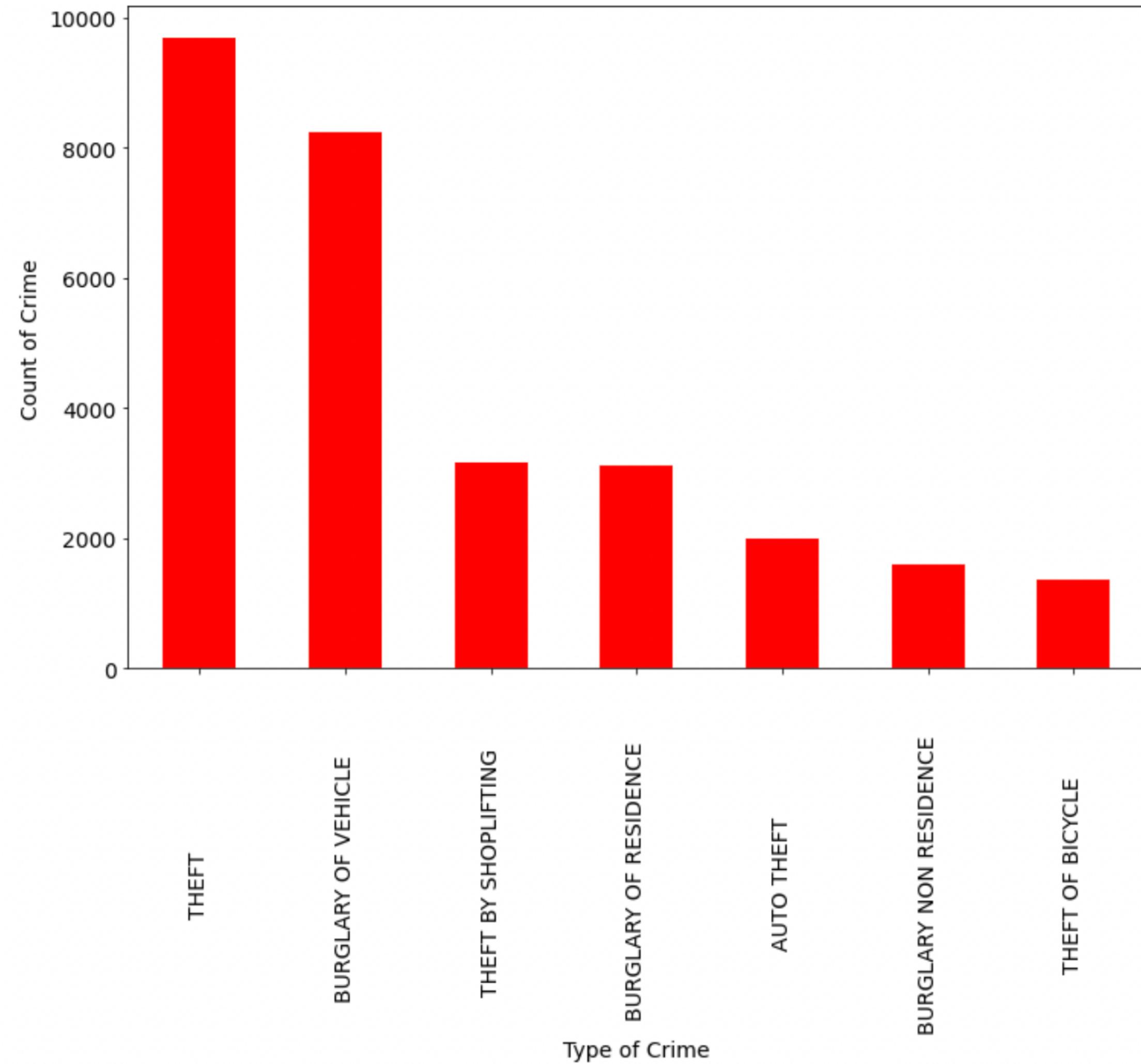
Murder 0.1%

Clearance Rate for FBI Descriptions



Crimes by APD Description

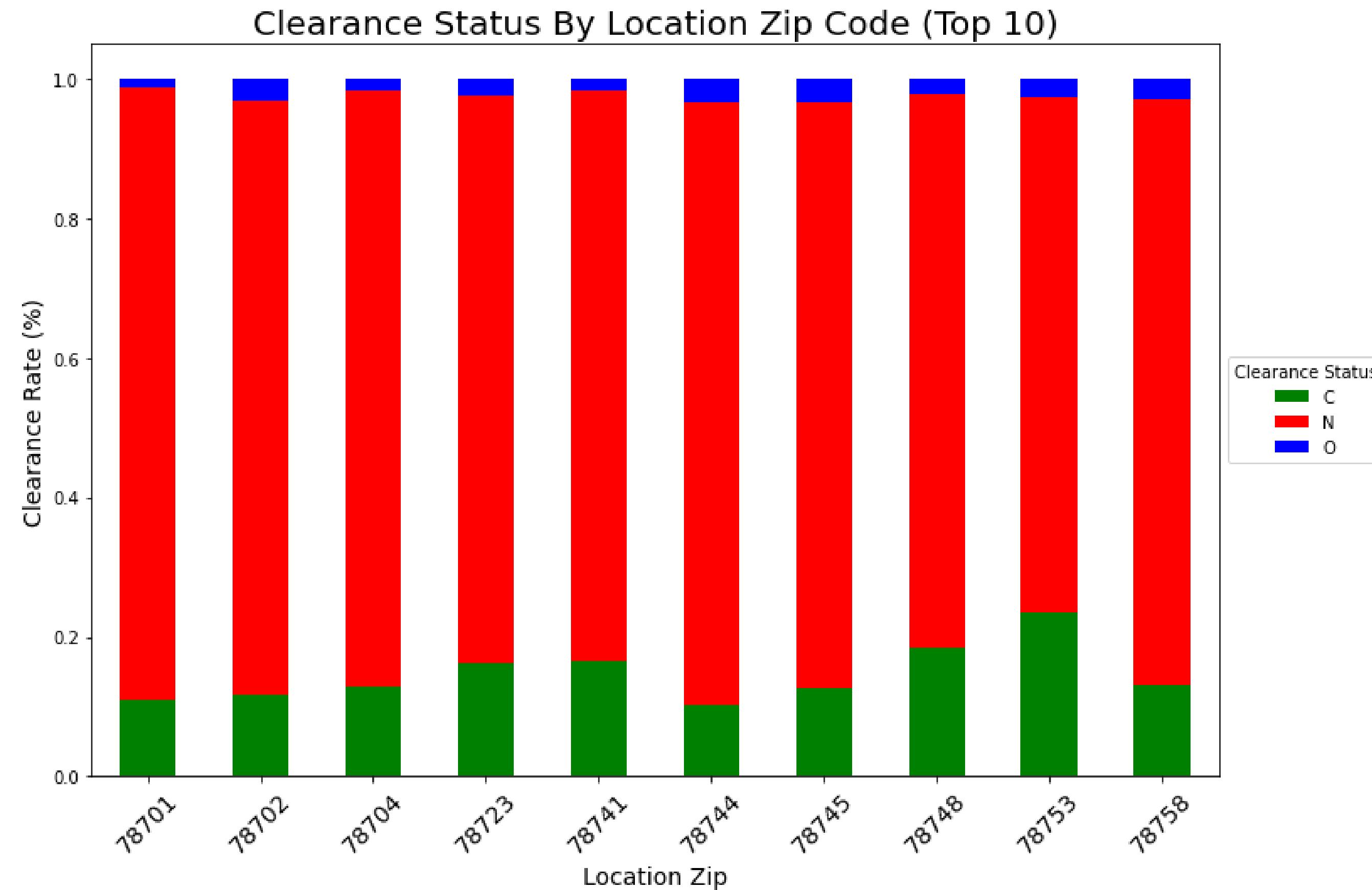
APD Crime Counts



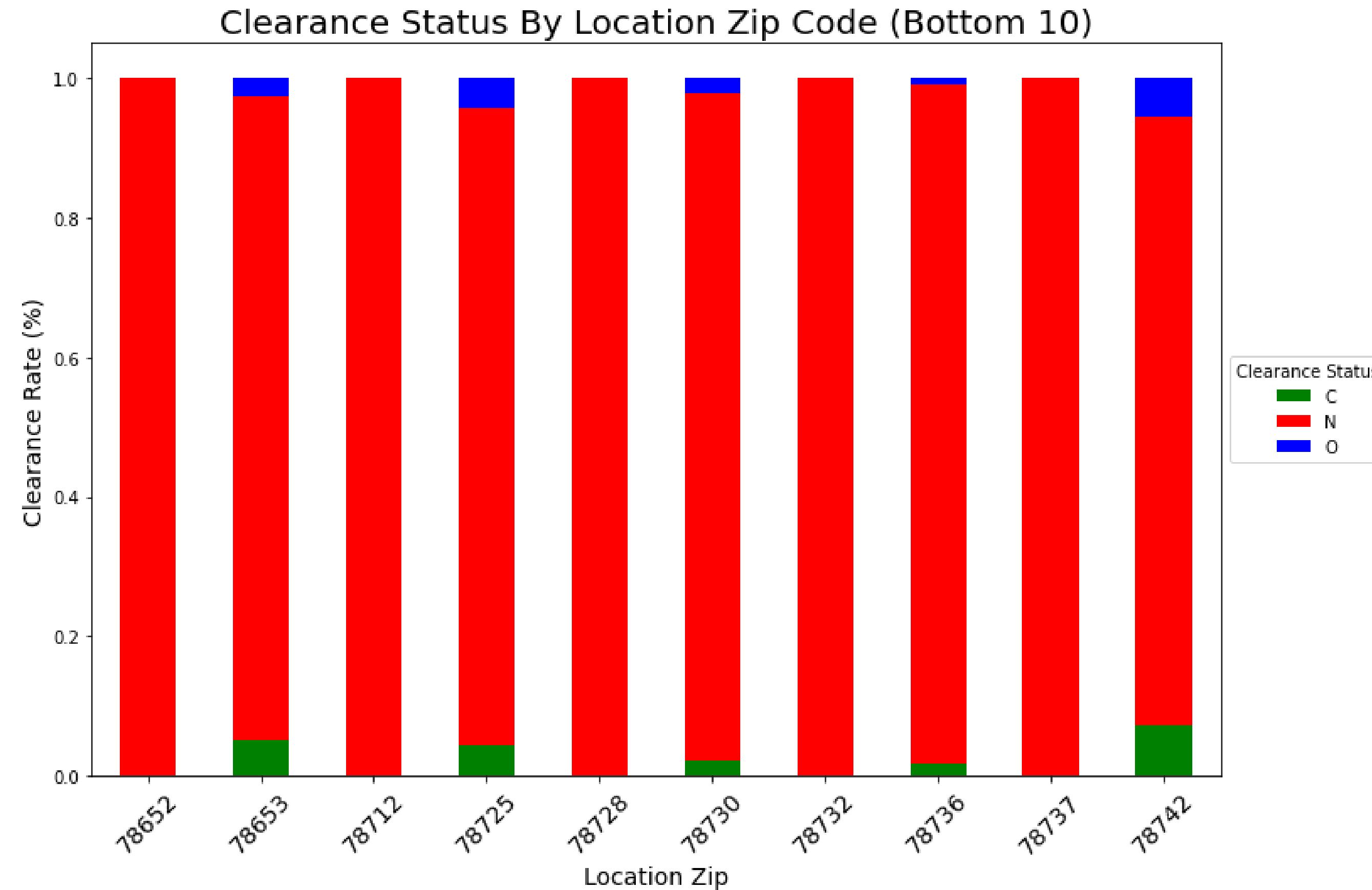
A photograph of the Texas State Capitol building in Austin, featuring its iconic dome and the Texas state flag flying from a pole on the left side.

Location

The graph displays the percentage cleared in the top 10 crime zip codes.



The graph displays the percentage cleared in the lowest 10 crime zip codes.

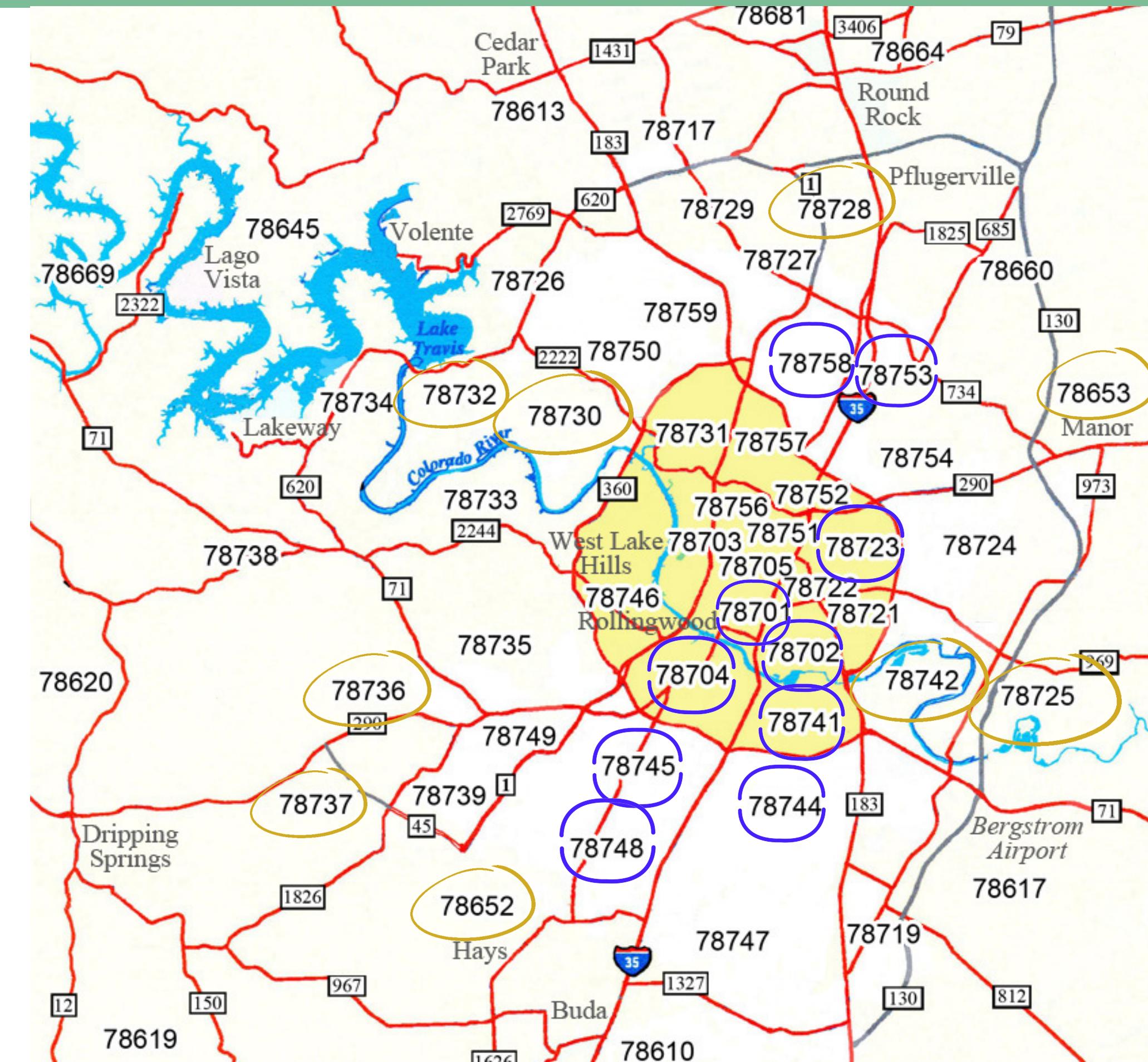


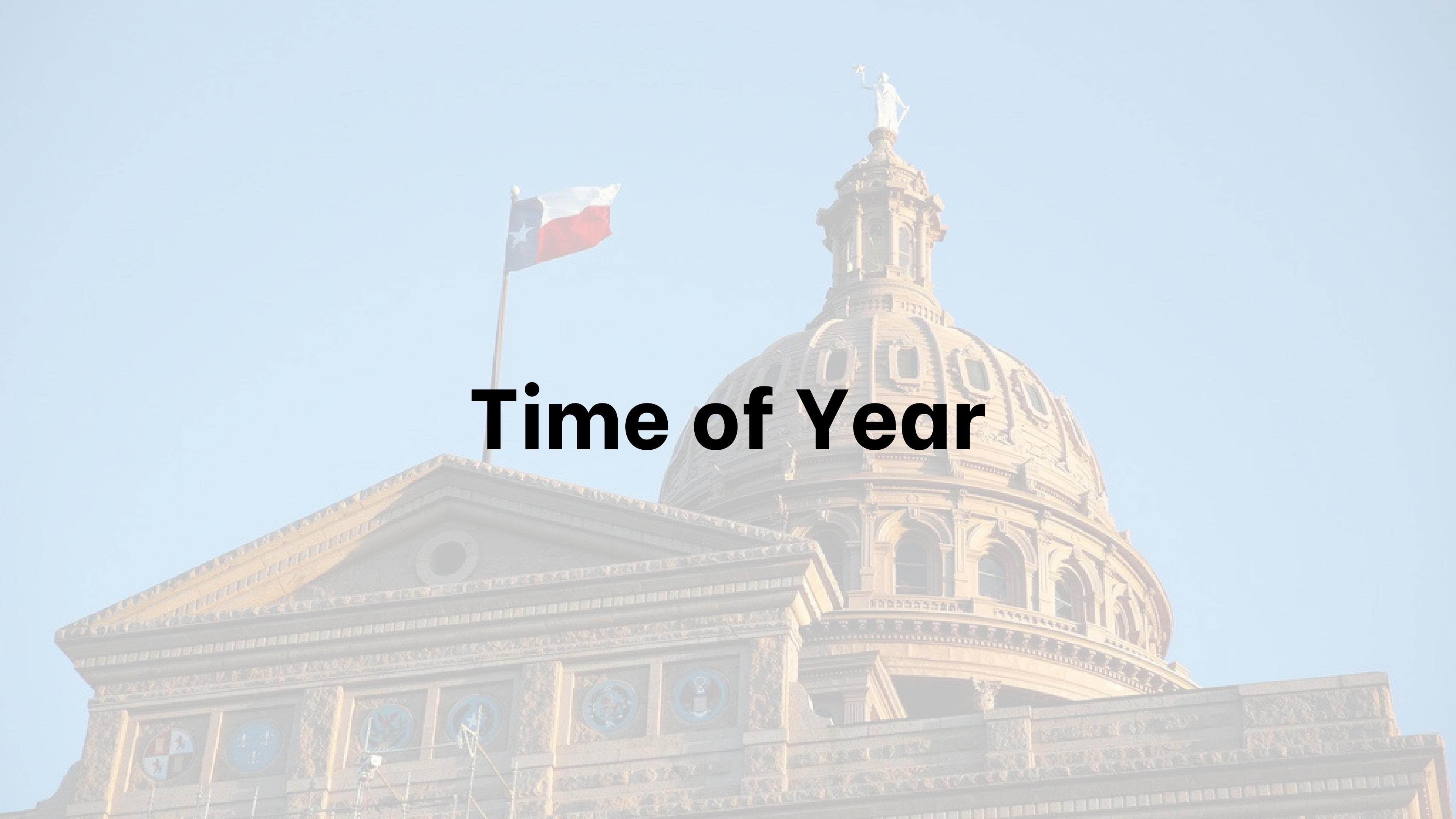
This map shows all of the zip codes in Austin.

Zip Code Key

= lower

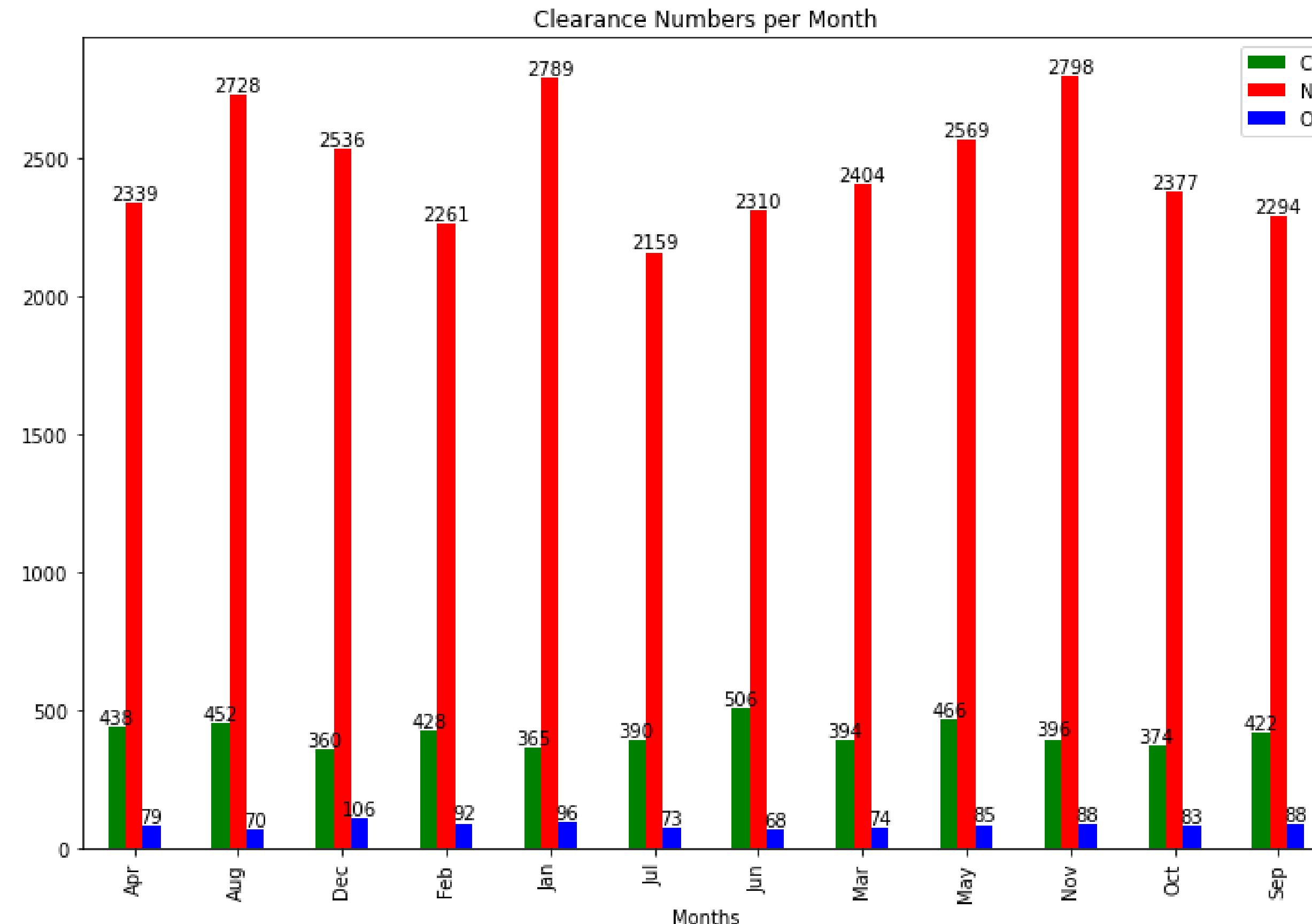
= higher



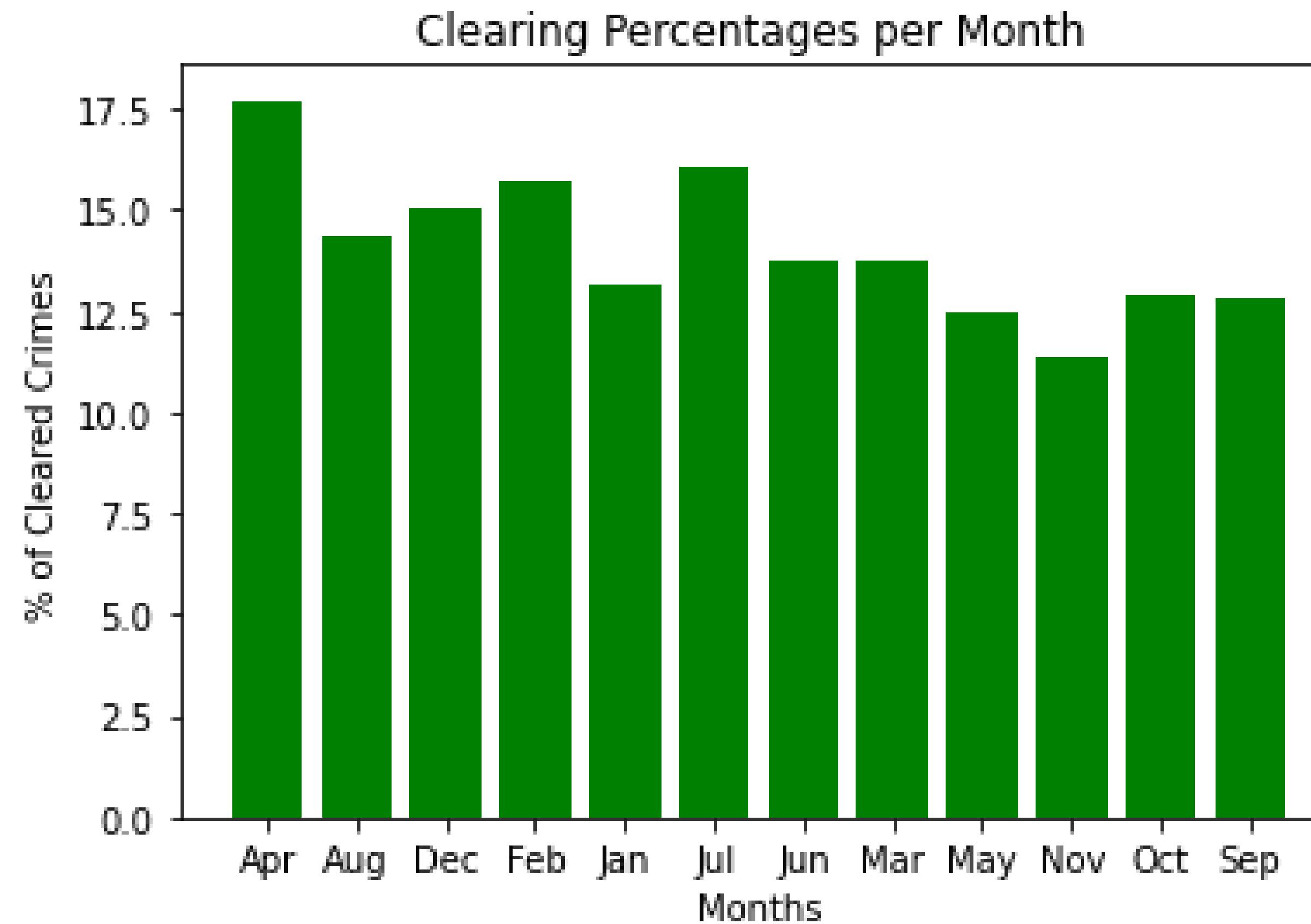
A photograph of the Texas State Capitol building in Austin, featuring its iconic dome and the Texas state flag flying from a pole on the left side.

Time of Year

This graph displays the number of crimes cleared, not cleared and still open over each month of 2016.



This graph displays the percentage of crimes cleared during each month of 2016.



Takeaways

- Theft was the most occurring crime in 2016 while also having the lowest clearance rate.
- Murder was the least occurring crime in 2016 while having the highest clearance rate.
- Crime happening inside the city tends to get cleared more
- August, November, and January are months with the most crime
- April has the highest clearance rate

Solutions

- The police department could focus more of their efforts on patrolling during the holidays, specifically Nov, Dec, and Jan when clearance rates are particularly low.
- Educate locals and tourists on thefts and the importance of locking up and looking after your belongings.
 - Adding more signage to parking lots or areas of town prone to theft.
 - Increasing gated security in parking lots.
 - Encourage residents to get security systems on cars and homes
- Increasing police assistance in districts and zip codes where crimes are higher.

Thank you!

Thank you for
listening and we
hope you can
learn more from
our work.

