Crime Analysis:

An In-Depth Analysis of LAPD Crime Data

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Table of Contents

Abstract

The Los Angeles Police Department (LAPD) is often faced with the predicament of trying to prevent crime even before it happens. The LAPD keeps a database of millions of crimes that have happened in the city. With officers patrolling streets attempting to reduce crime rates, statistical analysis can help predict certain crime patterns and trends throughout specific areas in the city. This report looks at crime data taken from the year 2018. Through the use of Structured Query Language (SQL) and the integrated development environment Microsoft's Visual Studio, it can visually be represented to find clear crime trends.

Crime Analysis:

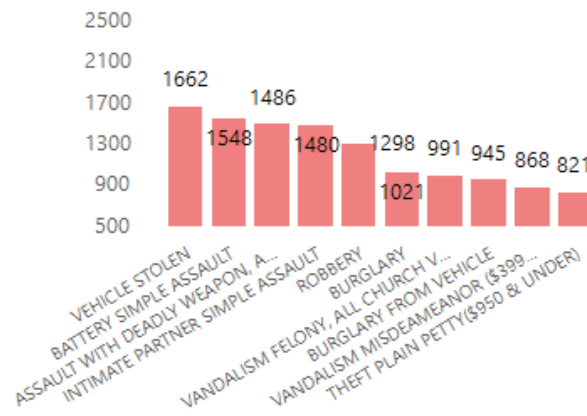An In-Depth Analysis of LAPD Crime Data

Overall Analysis of Crime in 2018

In 2018, there were 225,283 crimes in the region of 21 districts reported to the LAPD. Of those 225,283 reported crimes, 58.5 percent of those crimes came from the top ten most crime ridden areas. The average age to be a victim in any given region was 39. Violent crimes accounted for 33.5 percent of all crimes. The top reported crime throughout the city of Los Angeles was battery simple assault; there had been 24,181 reported cases of battery, which accounts for 10.7 percent of all crimes committed throughout the city.
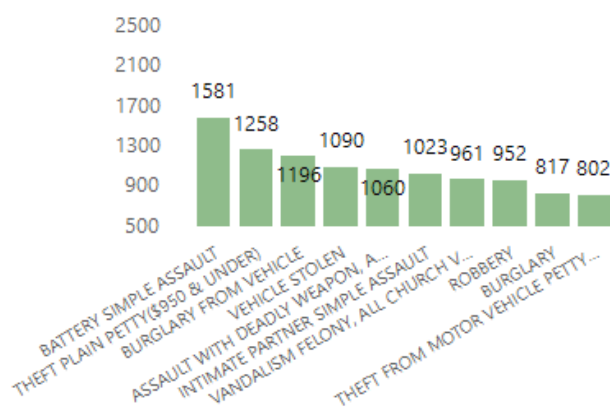
Crime by Area

Of the 21 different regions that make up Los Angeles, 29.2 percent of all crime comes from five specific areas of the county. These areas include, 77th Street, Southwest, Central, Pacific, and North Hollywood, respectively. In analysis of these areas, it is shown which type crime was reported the most.
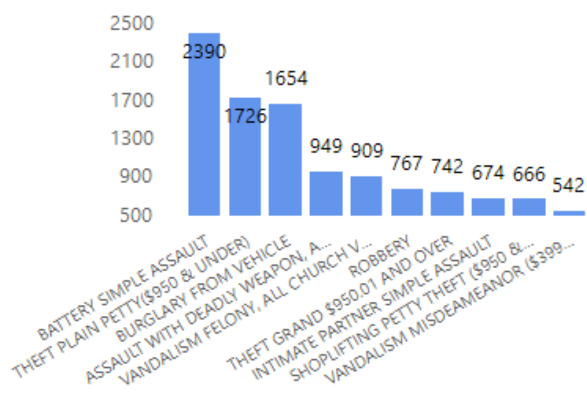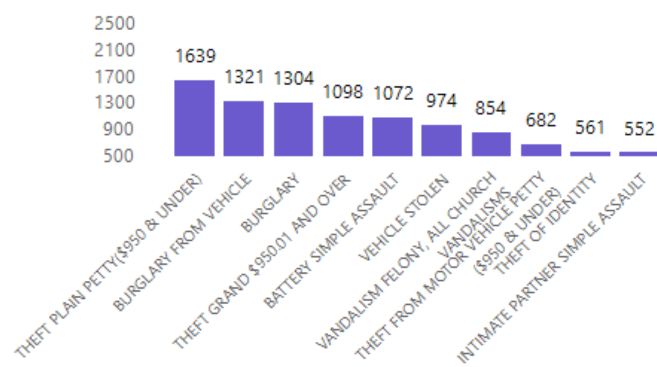
Southwest

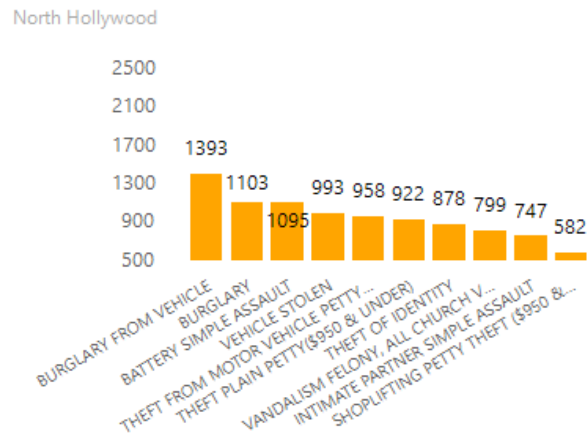|	
BATTERY SIMPLE ASSAULT	1581
THEFT PLAIN PETTY($950 & UNDER)	1258
BURGLARY FROM VEHICLE	1196
VEHICLE STOLEN	1090
ASSAULT WITH DEADLY WEAPON, A...	1060
INTIMATE PARTNER SIMPLE ASSAULT	1023
VANDALISM FELONY, ALL CHURCH V...	961
ROBBERY	952
BURGLARY	817
THEFT FROM MOTOR VEHICLE PETTY...	802

Central

BATTERY SIMPLE ASSAULT	2390
THEFT PLAIN PETTY($950 & UNDER)	1726
BURGLARY FROM VEHICLE	1654
ASSAULT WITH DEADLY WEAPON, A...	949
VANDALISM FELONY, ALL CHURCH V...	909
ROBBERY	767
THEFT GRAND $950.01 AND OVER	742
INTIMATE PARTNER SIMPLE ASSAULT	674
SHOPLIFTING PETTY THEFT ($950 &...	666
VANDALISM MISDEAMEANOR ($399...	542

Pacific

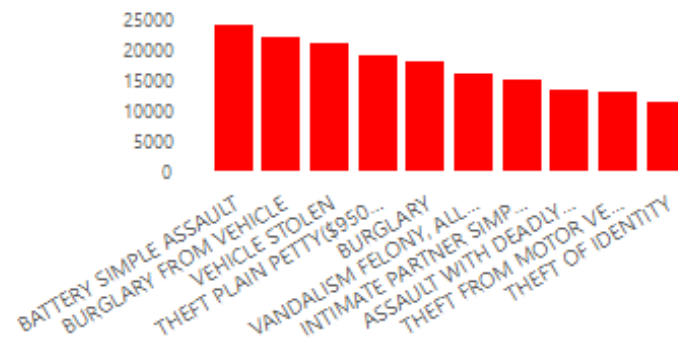|	
THEFT PLAIN PETTY($950 & UNDER)	1639
BURGLARY FROM VEHICLE	1321
BURGLARY	1304
THEFT GRAND $950.01 AND OVER	1098
BATTERY SIMPLE ASSAULT	1072
VEHICLE STOLEN	974
VANDALISM FELONY, ALL CHURCH	854
THEFT FROM MOTOR VEHICLE PETTY ($950 & UNDER)	682
THEFT OF IDENTITY	561
INTIMATE PARTNER SIMPLE ASSAULT	552

North Hollywood

Given the reported data shown, 77th street region has the most crime statistically with the largest total number of reports than any other area. Southwest was second and reported a generally evenly distributed types of crime. Central came in third in overall number of crimes reported, however the report findings show there were a staggering number of battery cases reported. This data stands out significantly among the other regions in the top five. Pacific and North Hollywood were fourth and fifth respectively with their top crimes being burglary.
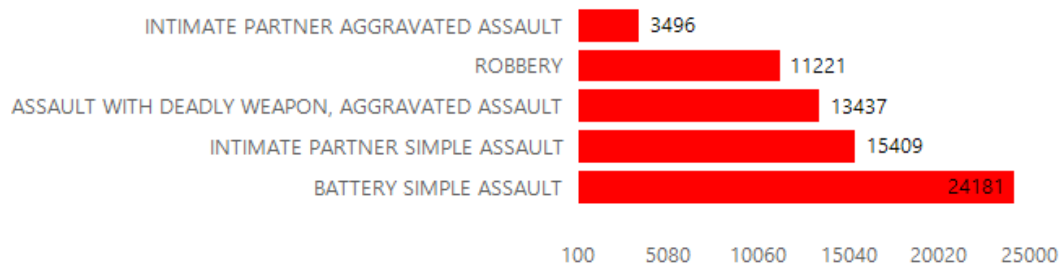
Crime by Description

Overall, 77 percent of all the crimes reported were from the top ten types of crime. 10.7 percent of the crimes reported was battery with 24,181 cases. 31.4 percent of crimes reported were considered as violent crimes. This includes 322 cases of criminal homicide. For the officers and leading commanders, this information could help them understand what areas to focus on. They may also be able to pass this information along to different community services or organizations that help bring awareness and offer help to individuals affected.
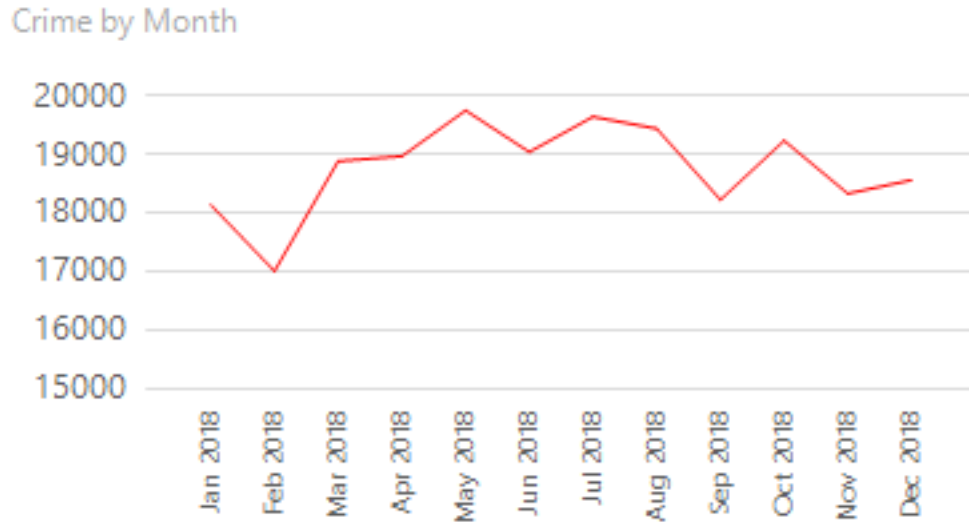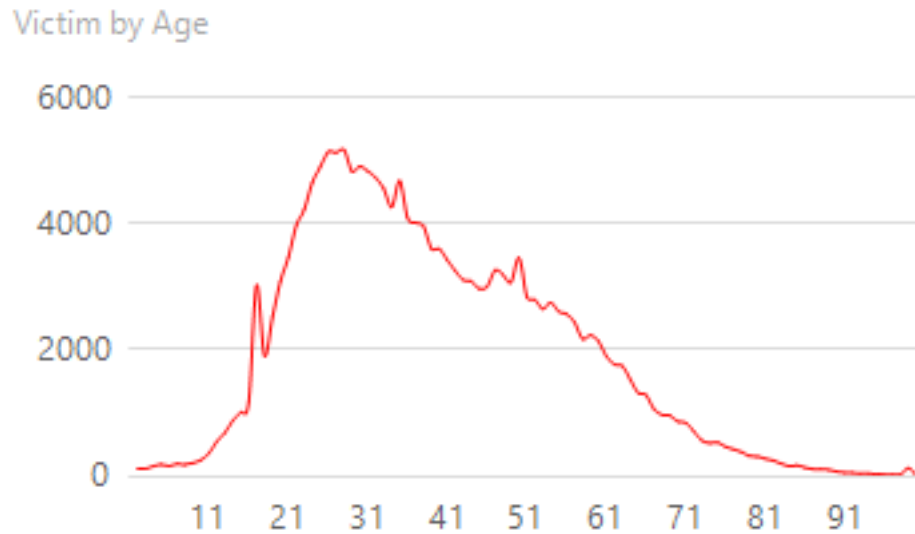
Crime by Description

Violent Crimes

Crime by Month

Throughout 2018, crime reported was typically evenly distributed in the twelve months. The month with the highest reported crime was May with 19,759. The lowest reported crime in a specific month was February with 17,009. Having this information could help commanding officers with staffing patrol officers, perhaps increasing the number of officers on staff during these times.

Crime by Month

Victim's Age

The ages most affected by crimes are twenty-eight, twenty-six, and twenty-seven, respectively.

Together they account for 15,454 reported victims. The average age to be a victim was 39. As

age increases, the probability of becoming a victim decreases statistically. Using this victim

information can help spread awareness in communities; having a general awareness of these

figures can help officers identify regions that may need extra protection. A demographically

younger neighborhood may be more prone to these kinds of crimes and having officers aware of

these correlations may help protect the members of the community.

Victim by Age

Take-Aways for LAPD

Due to specific trends in the data, the LAPD can use this information to their advantage. Using tactics like, officers on patrol in areas like Central and 77th street or setting up under covers in specific areas. Knowledge of these statistics will help the LAPD and can effectively try to bring the crime rate down. With the reports on the specific types of crimes, certain training programs for officers can be put into place, to help identify and prevent this kind of activity in the area. Having officers with specialized training will help the response rate and give them advantage in the community to help ensure the safety of other law-abiding citizens.