

# The Boston Crimes Report

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## SUMMARY

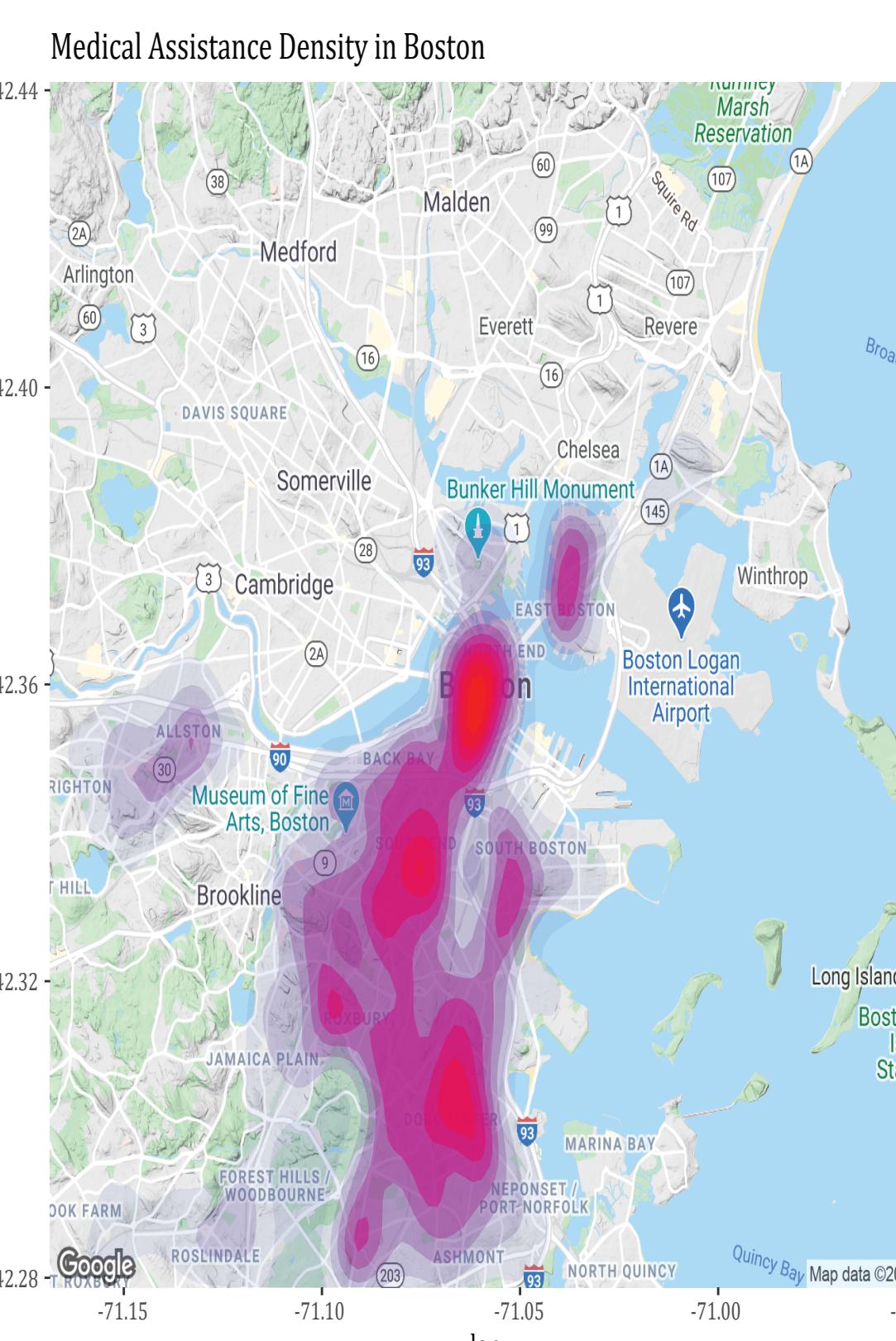
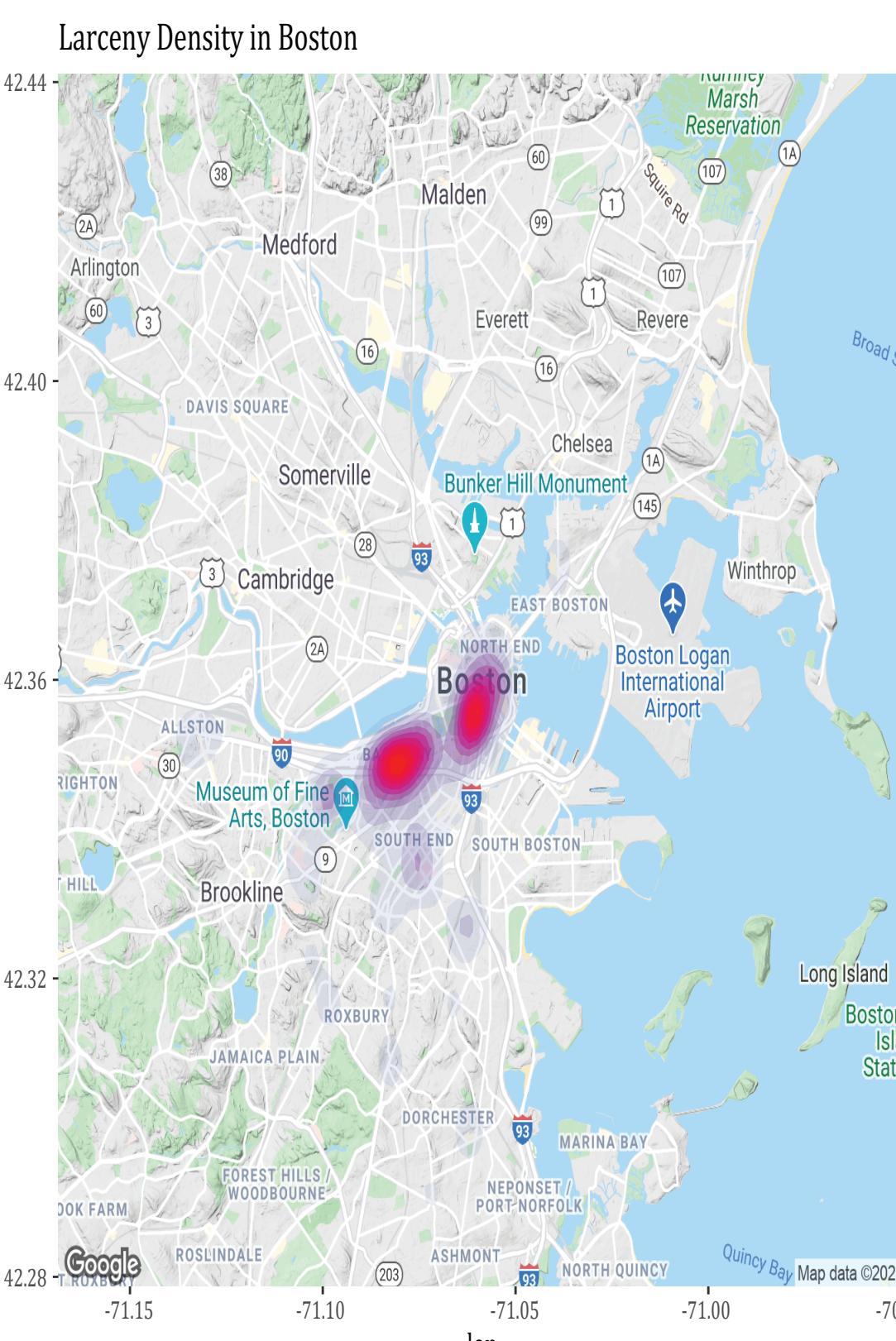
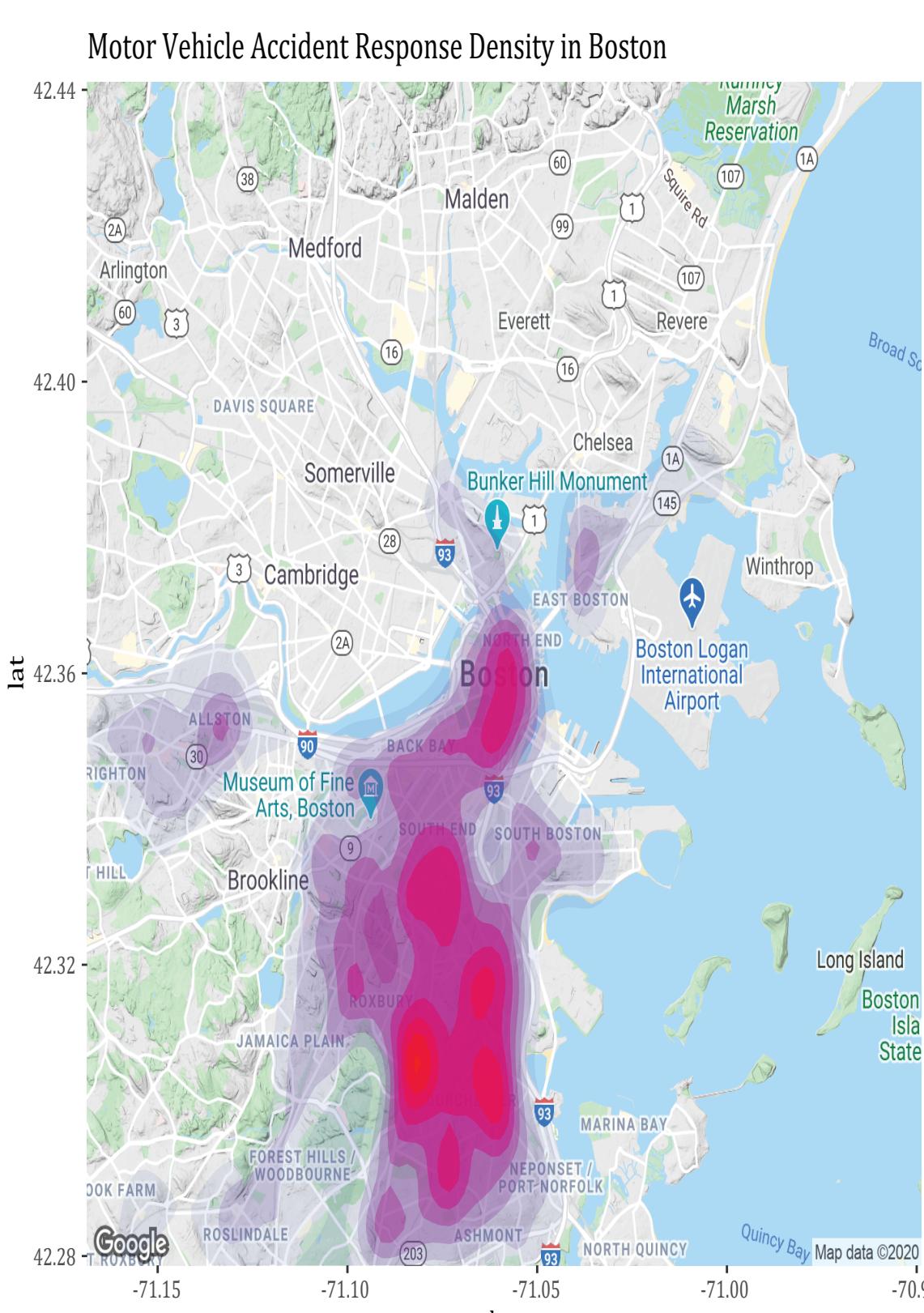
Across the country, municipalities have begun making crime data readily available to be viewed by the general public.. Among these cities, Boston, Massachusetts, has begun to rely on their police department to make police incident data available. The data set being examined in this paper begins in June 2015 and ends in September 2018. The dataset contained 16 columns and 319073 rows. Minimal cleaning was needed.

## AUDIENCE

This article may be of interest to residents of Boston, Massachusetts, travelers to the Boston area, the Boston Public Police Department, city officials, or anyone interested in crime data and data science practices. From a resident and traveler perspective, the data gives readers a good idea of crime hot spots to avoid. This study also gives police and officials an idea of communities that could benefit from an increased presence or better programs.

## ABOUT THE DATA

The dataset used for this study was retrieved from Kaggle, by way of Analyze Boston, the city of Boston's open data hub. The data in this particular dataset was created by the Boston Police Department (BPD) to document initial details surrounding an incident to which BPD officers responded. It contains records from the new crime incident report system including a reduced set of fields capturing incident details.

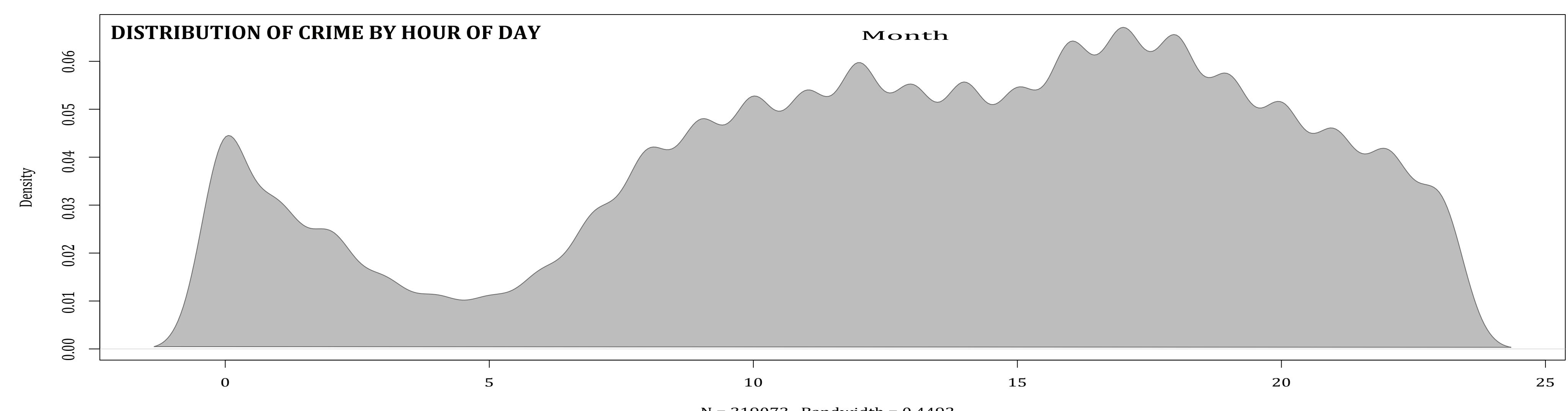
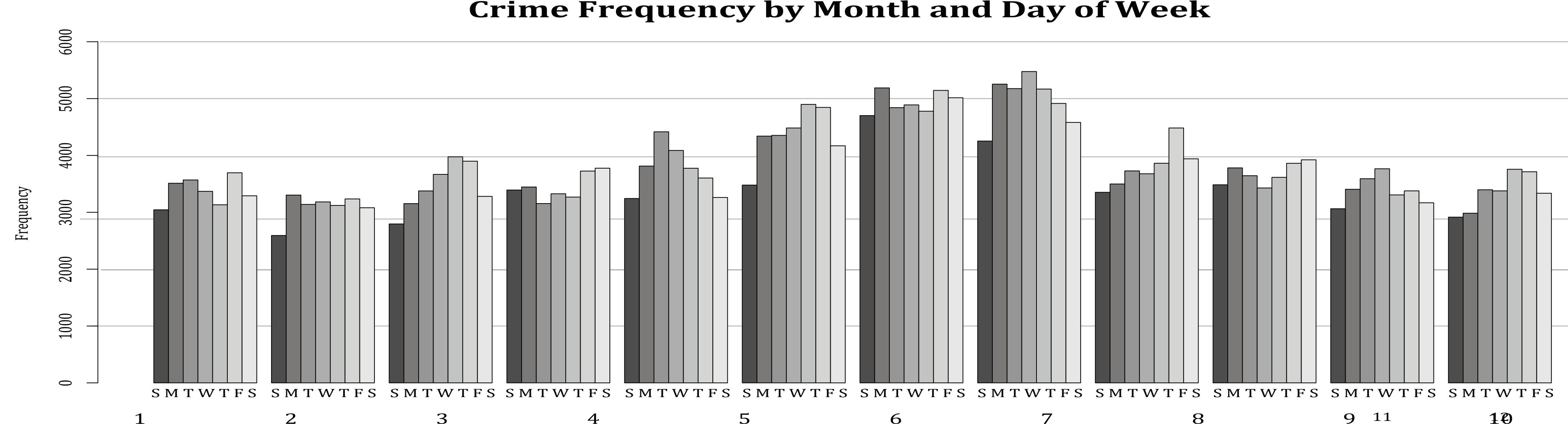


## WHAT ARE THE MOST COMMON OFFENSES IN BOSTON NEIGHBORHOODS?

The heat maps to the left display the top three offenses in Boston, Massachusetts by offense group. These offenses included "Motor Vehicle Accident Responses", "Larceny" (including shoplifting, bicycles, purse snatches, and from 1dings), and "Medical Assistance" (including sick/injured/medical, suicide attempt, sudden death, and death investigation). The epicenter for larceny events appears to be centered around the Back Bay and North End areas of Boston.

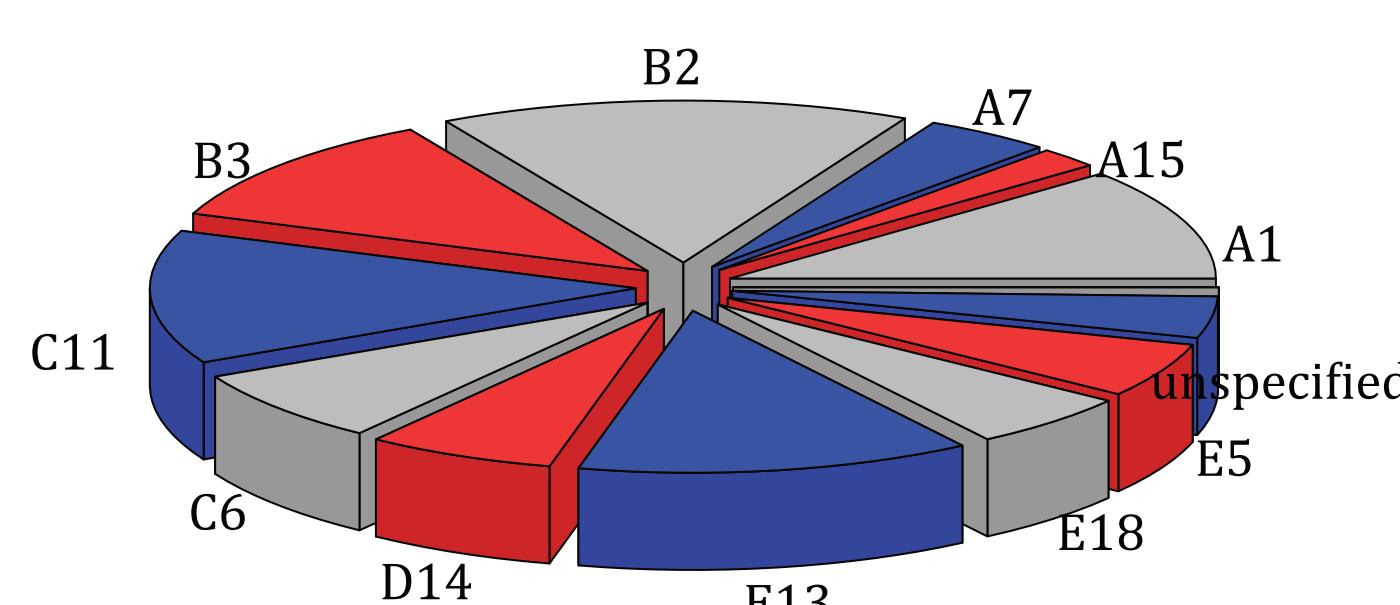
*Does the frequency of crimes change over the day of the week? Time of day? Time of year?*

**(1) WEEKLY:** Over the course of the four years being analyzed, 48,496 incidents were recorded on Fridays, making Friday the day of the week with the highest frequency of crime overall. **(2) DAILY:** Over the course of a day (24 hours), the trend in crime appears to drop after midnight and rise steadily until it reaches its peak at 5PM. **(3) YEARLY:** As expected, crime throughout the course of the year is relatively steady until the summer months. Around May, crime begins to rise and steadily increases until August when the summer months come to an end.

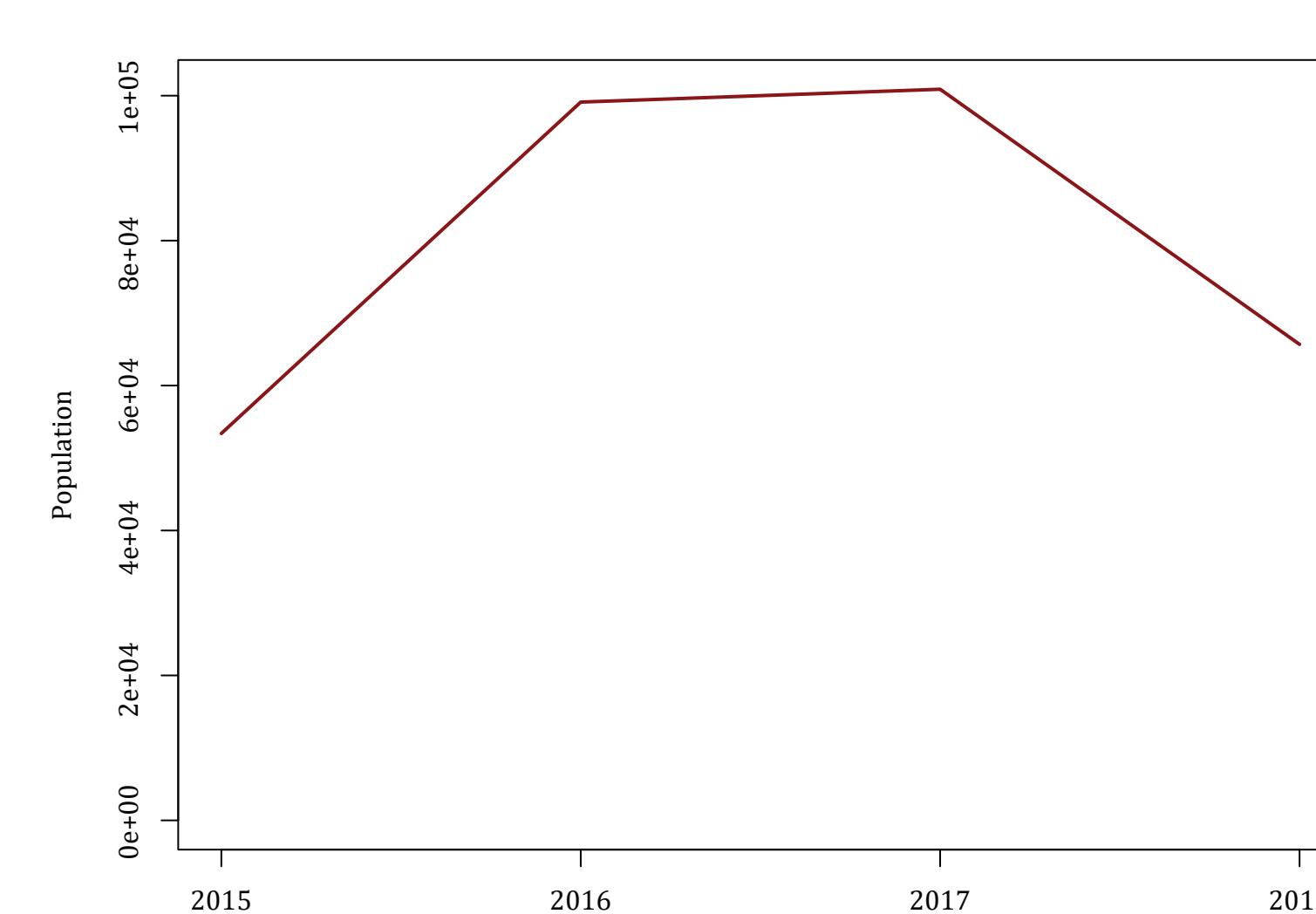


## More About The Data

Pie Chart of Countries



Breakdown of Crime Amounts by District



Breakdown of Crime Amounts by Year