

Shooting Occurrences Increased Across the City of Toronto between 2014 and 2019

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1 Abstract

In 2005, the City of Toronto saw unprecedented levels of gun violence (Siciliano, 2). More than a decade later, the number of shooting occurrences in Toronto continued to rise. Using data from the City of Toronto Open Data Portal, this paper illustrates trends in the number of shooting occurrences in different divisions of Toronto, from 2014 to 2019, inclusive. This paper shows that across the City of Toronto, shooting occurrences steadily increased in the six-year period from 2014 to 2019.

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3 Introduction

Canada has the fifth-highest rate of gun fatalities in the world among high-income countries, and between 2008 and 2012, firearms caused more deaths in young men ages 18-24 than cancer, falls, drowning, and fires combined. Owens (2019)

4 Data

The data used throughout this paper was obtained through the City of Toronto's Open Data Portal. The specific data set used is titled "Shooting Occurrences (2014-2019)". It includes all shooting-related events reported to Toronto Police Service from 2014 to 2019 Gelfand (2022). Data was collected, cleaned, and analyzed using statistical programming language R R Core Team (2022). Additionally, tidyverse Wickham et al. (2019), dplyr Wickham et al. (2023),

janitor Firke (2023), ggplot2 Wickham (2016), and readr (citereadr?), and knitr Xie (2014) were used for the data analysis and visualizations.

5

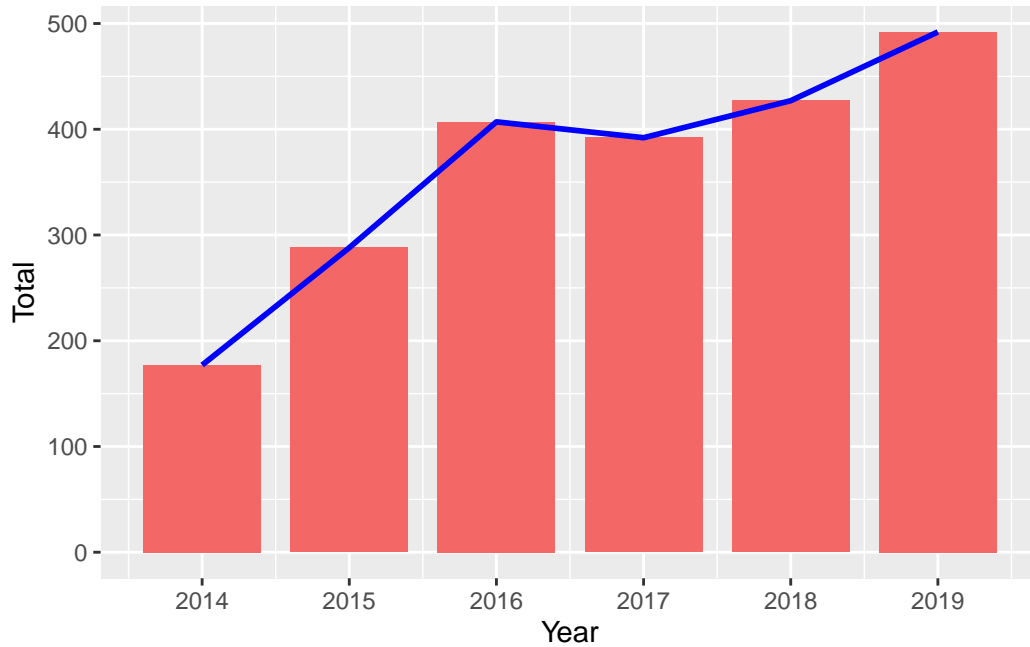


Figure 1: Total Number of Shooting Occurrences Across Toronto, 2014-2019

6 Conclusions

This paper investigates how patterns in the number of shooting occurrences across Toronto changed between 2014 and 2019. The data clearly showed that while the overall total number of shooting occurrences across the City of Toronto increased year-over-year between 2014 and 2019, this pattern varied between divisions.

References

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Figure 2: Morning Rush Hour Delays, by Day

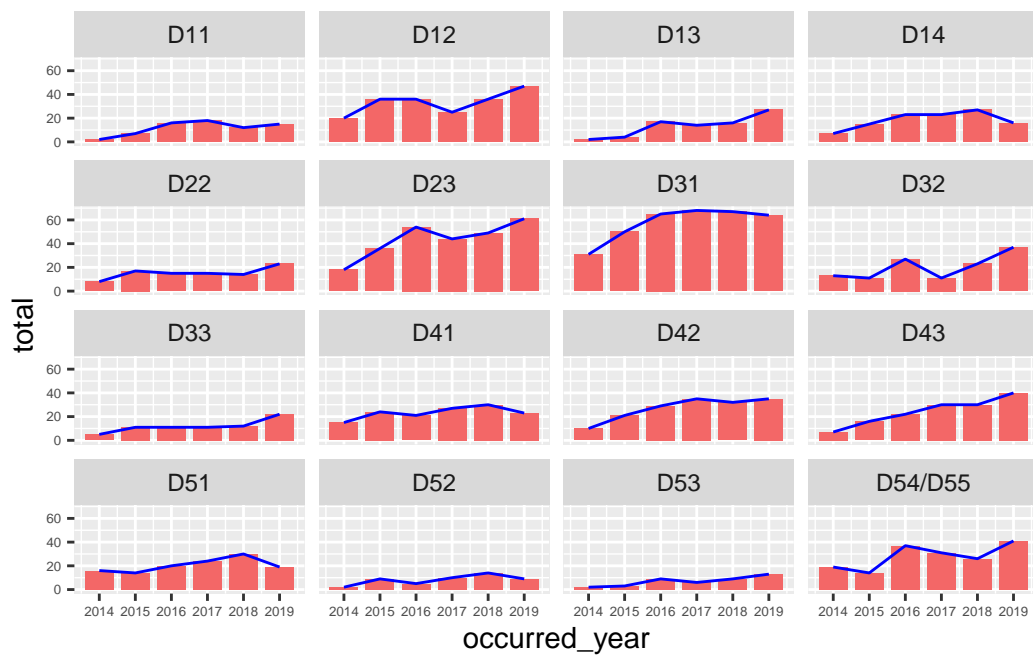


Figure 3: Annual Shooting Occurrences 2014-2019, by Toronto Police Division

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