

No Correlation Between Gun Control Legislation and Amount of Shootings in Toronto, Ontario

Russell Luchin

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The Toronto Police Service's dataset on daily shootings within Toronto was used to graph shooting trends alongside key dates of gun control legislation passing. Based on the observed trends, there is no significant correlation between passing or reversing gun control legislation on the number of shootings in Toronto. Potential positive correlation can be found when observing dates of significant jail reform, although the sample size for this legislation is limited.

Table of Contents

1 Introduction

2 Data

2.1 Raw Data from Toronto Police Service

2.2 Cleaned Data

2.3 Methodology

3 Results

3.1 Number of Shootings in Years of Major Legislation Receiving Ascension

3.2 Overview of Yearly Shootings During Pro-Gun Control Government

3.3 Overview of Yearly Shootings During Anti-Gun Control Government

3.4 Overview of Monthly Shootings During Record Year of Shootings

3.5 Full Overview of Total Yearly Shootings, 2006 to 2023

3.6 Shooting Trends Following Year of Major Municipal Gun Control

3.7 Shooting Trends Within Year of Major Municipal Gun Control

4 Discussion

5 Conclusion

References

Introduction

Data

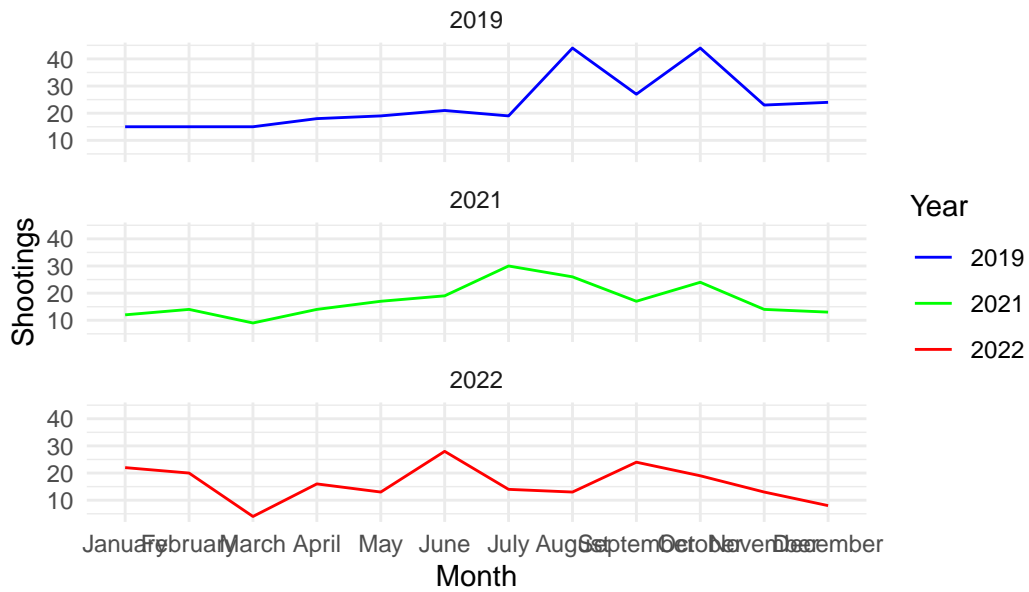
```
# A tibble: 6 x 3
  Year Month Shootings
<int> <fct>   <int>
1  2004 January      12
2  2004 February     2
3  2004 March       13
4  2004 April       12
5  2004 May         14
6  2004 June         9
```

```
# A tibble: 6 x 3
  Year Month Shootings
<int> <fct>   <int>
1  2023 July      20
2  2023 August    24
3  2023 September 18
4  2023 October   7
5  2023 November  13
6  2023 December 19
```

Results

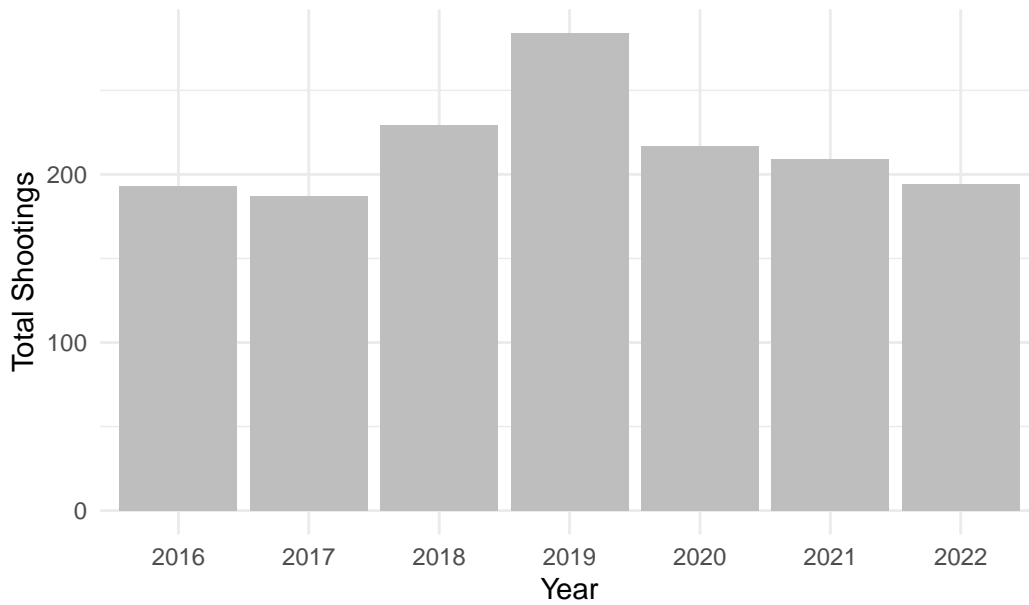
3.1

Shootings by Year

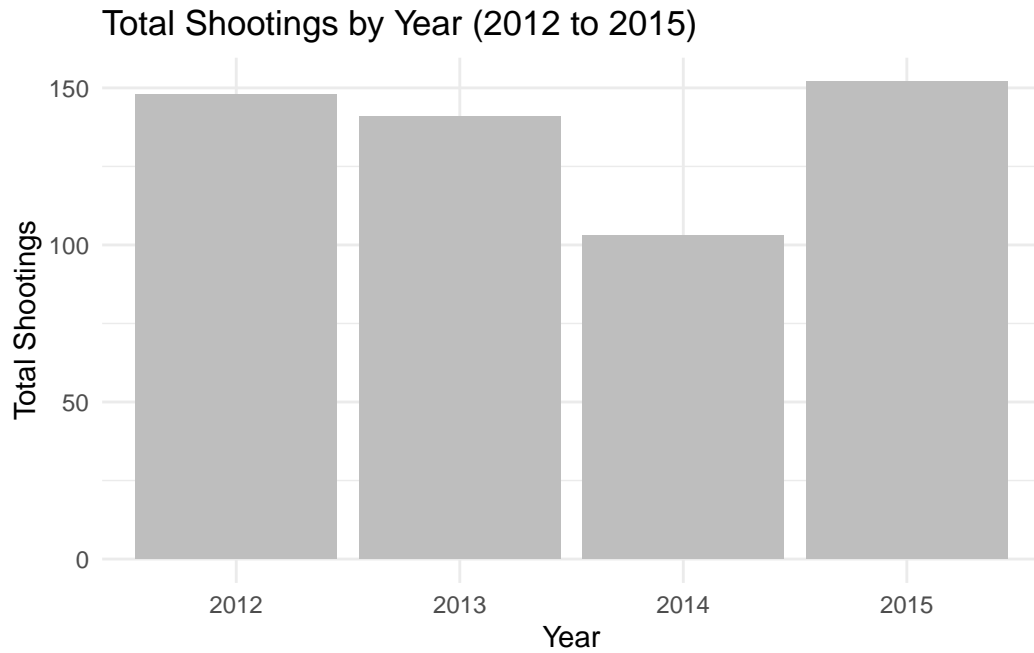


3.2

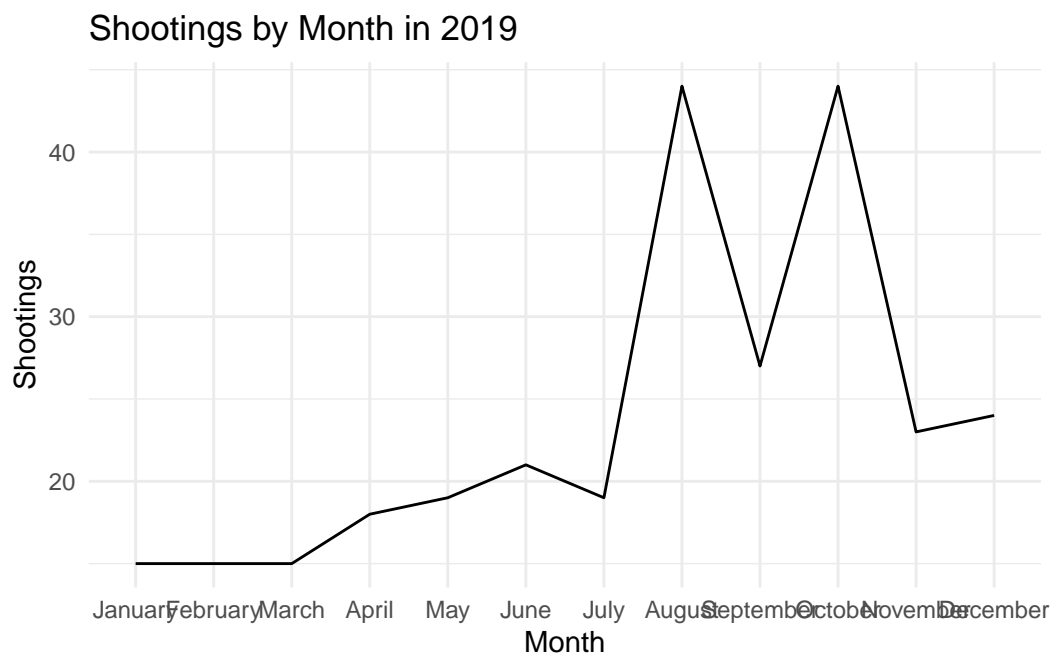
Total Shootings by Year (2016 to 2022)



3.3

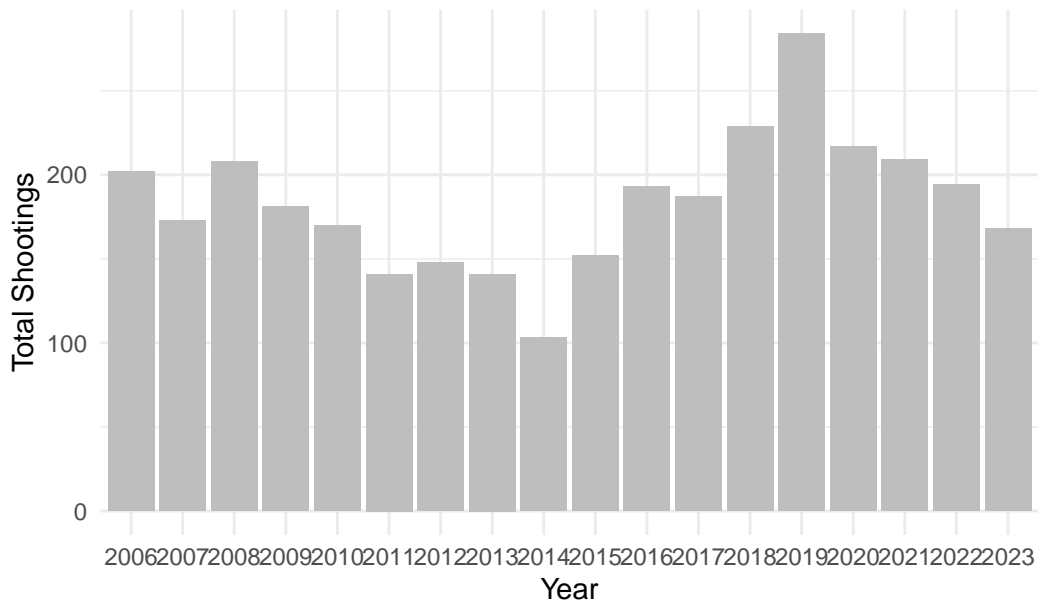


3.4



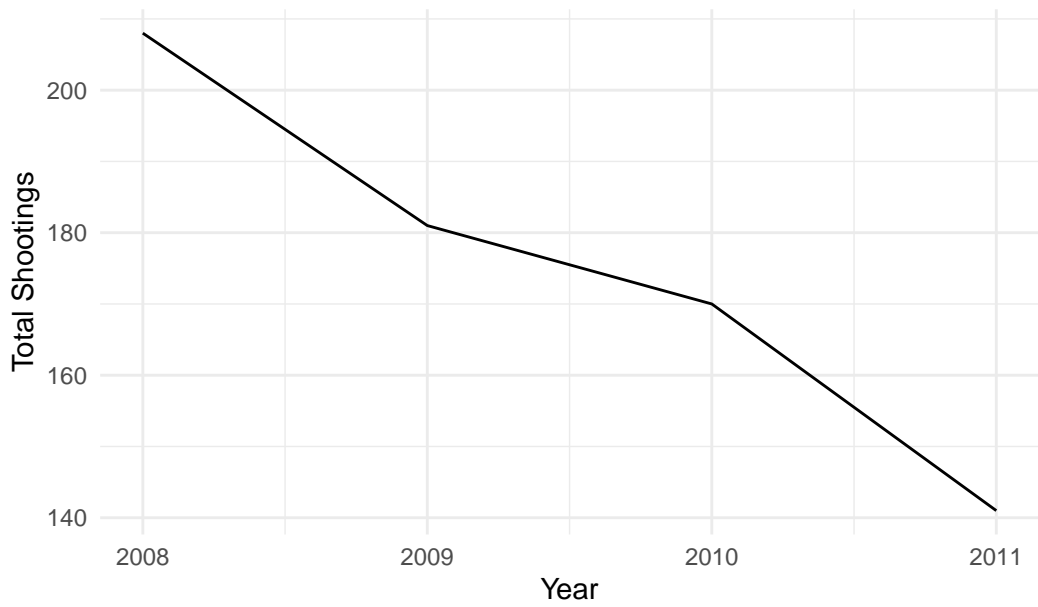
3.5

Total Shootings per Year (2006 to 2023)

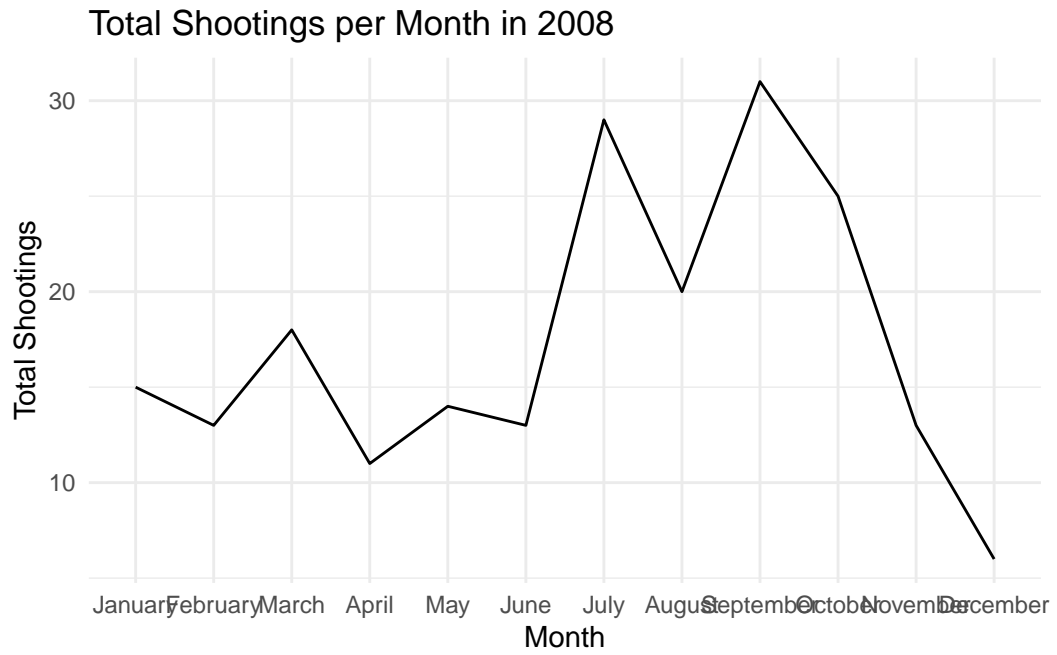


3.6

Total Shootings per Year (2008 to 2011)



3.7



Discussion

Conclusion