

Do Income and Population Affect Crimes Committed in Neighbourhoods? An Analysis of the 2020 Toronto Crime Data*

There is strong evidence of income and population being correlated with the number of crimes committed in Toronto neighbourhoods.

Janel Gilani

January 23, 2024

First sentence. Second sentence. Third sentence. Fourth sentence.

Table of contents

1	Introduction	2
2	Data	4
2.1	Number of Crimes Committed in 2020 in Toronto Neighbourhoods	4
2.2	Neighbourhood Profiles, 2021 (158 Model)	4
2.3	Combining Crimes, Income and Population Data	4
3	Results	4
3.1	Toronto Neighbourhoods Crimes Committed in 2020 Statistics	4
3.2	Toronto Neighbourhood Profile Based on 2021 Census Data	4
3.3	Relationship Between Crimes Committed and Neighbourhood Population . . .	4
3.4	Relationship Between Crimes Committed and Neighbourhood Income	5
4	Discussion	5
5	Conclusion	5
6	References	6

*Code and data are available at: <https://github.com/JanelGilani/spread-of-crimes-in-toronto>

Table 1: Sample of Cleaned 2020 Toronto Neighbourhoods Crime Data

Neighbourhood Name	Hood ID	Number of Crimes Committed
South Eglinton-Davisville	174	257
North Toronto	173	167
Dovercourt Village	172	207
Junction-Wallace Emerson	171	442
Yonge-Bay Corridor	170	797

Table 2: Sample of Cleaned 2020 Toronto Neighbourhood Profile Data

Hood ID	Popluation	Income
1	33300	104500
2	31345	86200
3	9850	101300
4	10375	90000
5	9355	94600

1 Introduction

You can and should cross-reference sections and sub-sections.

The remainder of this paper is structured as follows. Section 2, Section 3, Section 4, and Section 5.

Table 3: Sample of Combined Toronto Neighbourhood Crime, Income and Population Data

Hood ID	Neighbourhood Name	Number of Crimes	Population	Income
153	Avondale	163	13790	102700
154	Oakdale-Beverley Heights	576	21420	89600
155	Downsview	283	17970	97600
156	Bendale-Glen Andrew	256	18685	86400
169	Bay-Cloverhill	230	16670	94000
170	Yonge-Bay Corridor	797	12645	99800
171	Junction-Wallace Emerson	442	23180	103700
172	Dovercourt Village	207	12380	111500
173	North Toronto	167	15885	85400
174	South Eglinton-Davisville	257	22735	103500

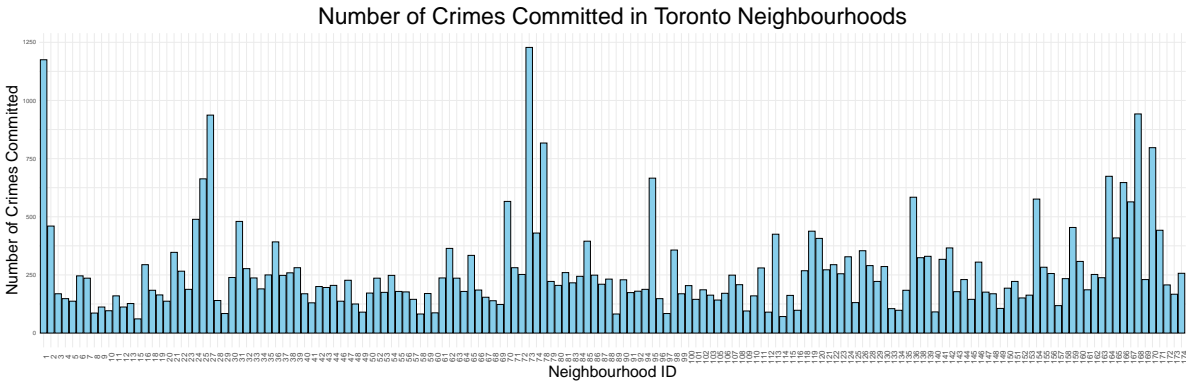


Figure 1: Number of Crimes Committed in Toronto Neighbourhoods

2 Data

2.1 Number of Crimes Committed in 2020 in Toronto Neighbourhoods

2.2 Neighbourhood Profiles, 2021 (158 Model)

2.3 Combining Crimes, Income and Population Data

3 Results

3.1 Toronto Neighbourhoods Crimes Committed in 2020 Statistics

3.2 Toronto Neighbourhood Profile Based on 2021 Census Data

3.3 Relationship Between Crimes Committed and Neighbourhood Population

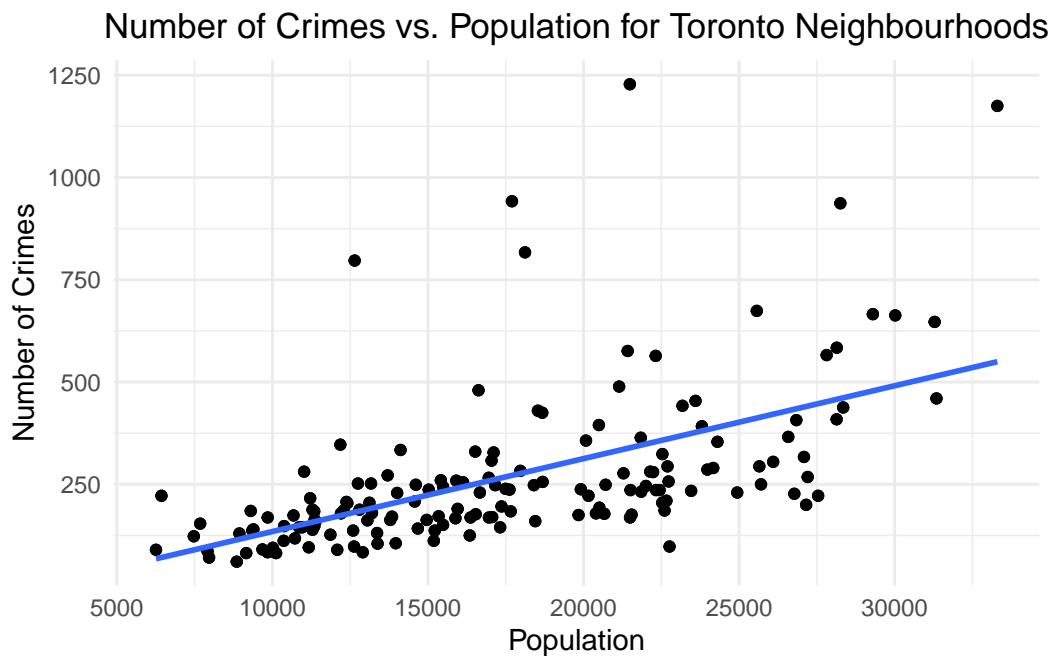


Figure 2: Correlations between Number of Crimes and Population

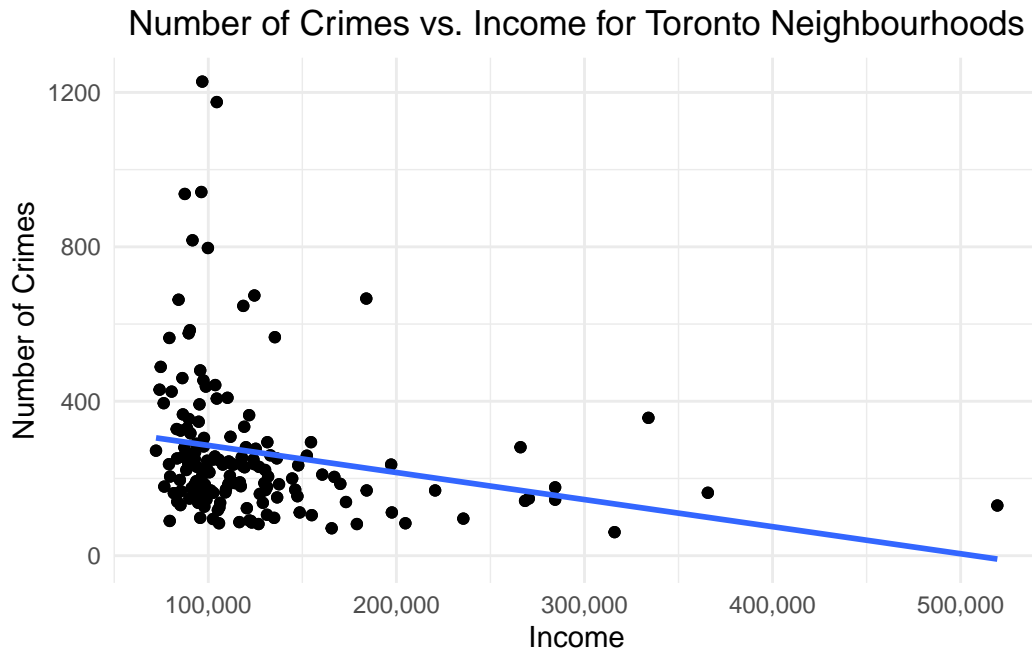


Figure 3: Correlations between Number of Crimes and Income

3.4 Relationship Between Crimes Committed and Neighbourhood Income

4 Discussion

5 Conclusion

6 References