TITLE: Gun Violence Rates Across the Bronx Show Significant Increase in 2021

December 19, 2021

**SOURCE:**

40th Precinct Data:

- <https://www1.nyc.gov/site/nypd/bureaus/patrol/precincts/40th-precinct.page>

41st Precinct Data:

- <https://www1.nyc.gov/site/nypd/bureaus/patrol/precincts/41st-precinct.page>

42nd Precinct Data:

- <https://www1.nyc.gov/site/nypd/bureaus/patrol/precincts/42nd-precinct.page>

43rd Precinct Data:

- <https://www1.nyc.gov/site/nypd/bureaus/patrol/precincts/43rd-precinct.page>

44th Precinct Data:

* <https://www1.nyc.gov/site/nypd/bureaus/patrol/precincts/44th-precinct.page>

45th Precinct Data:

- <https://www1.nyc.gov/site/nypd/bureaus/patrol/precincts/45th-precinct.page>

46th Precinct Data:

- <https://www1.nyc.gov/site/nypd/bureaus/patrol/precincts/46th-precinct.page>

47th Precinct Data:

- <https://www1.nyc.gov/site/nypd/bureaus/patrol/precincts/47th-precinct.page>

48th Precinct Data:

- <https://www1.nyc.gov/site/nypd/bureaus/patrol/precincts/48th-precinct.page>

49th Precinct Data:

* <https://www1.nyc.gov/site/nypd/bureaus/patrol/precincts/49th-precinct.page>

50th Precinct Data:

- <https://www1.nyc.gov/site/nypd/bureaus/patrol/precincts/50th-precinct.page>

52nd Precinct Data:

- <https://www1.nyc.gov/site/nypd/bureaus/patrol/precincts/52nd-precinct.page>

\*NOTE: The 51st Precinct of the Bronx is closed and no longer in operation.

Date Pulled: December 18th, 2021

**Location**

Desktop/FDJassignment3/precinctdata.xlsx

**Scope**

How do gun violence rates compare across The Bronx in 2020 versus 2021? How does the percent change from the two years compare across The Bronx?

**Questions**

* How do gun violence rates compare across The Bronx in 2020 versus 2021?
* How does the percent change from the two years compare across The Bronx?
* Which precinct had the highest rate of Shooting Vic./Shooting Inc./Total Reported Shootings in 2020?
* Which precinct had the highest rate of Shooting Vic./Shooting Inc./Total Reported Shootings in 2021?
* Which precinct had the highest percent change in total reported shootings between 2020 and 2021?
* Are there any visible patterns/correlations visible in the data being presented?

**Analysis**

1. Imported all precinct data sets and copie each into a separate worksheet in the same Excel file
2. Extracted the data I wanted to use from each precinct data set
   1. 2021 YTD - Shooting Vic.
   2. 2020 YTD - Shooting Inc.
   3. 2021 YTD - Shooting Vic.
   4. 2020 YTD - Shooting Inc.
   5. Percent Change 2020-2021 - Shooting Vic.
   6. Percent Change 2020-2021 - Shooting Inc.
3. I double checked the percent changes by calculating the percent change with the extracted numbers in Excel
   1. (Initial Value - Second Value) / | Initial Value | \* 100
   2. Numbers provided in the datasets were correct
4. Calculated total reported shooting by adding Shooting Vic. and Shooting Inc. numbers for each precinct for 2020
5. Calculated total reported shooting by adding Shooting Vic. and Shooting Inc. numbers for each precinct for 2021
6. Calculated percent change in total shooting numbers from 2020 to 2021
   1. (Initial Value - Second Value) / | Initial Value | \* 100
7. Created a map in Data Wrapper using the Shooting Vic., Shooting Inc., and Total Reported Shooting Numbers for 2020, using the Total Reported Shootings Value as the amount indicator on the map
   1. Included the Shooting Vic., Shooting Inc. and Total amounts in Tooltips
8. Created a map in Data Wrapper using the Shooting Vic., Shooting Inc., and Total Reported Shooting Numbers for 2020, using the Total Reported Shootings Value as the amount indicator on the map
   1. Included the Shooting Vic., Shooting Inc. and Total amounts in Tooltips
9. Set maximum and minimum range on the legend from 0 to the highest amount reported in the dataset
   1. 151 was the highest amount, but I set the maximum at 150 for the sake of cleanliness (and my OCD)
10. Matched the maximum and minimum range for both maps to show a clear comparison between the two years when the maps are shown together
11. Created a single bar chart in Data Wrapper showing the percent change of the Total Reported Shootings between 2020-2021 for each precinct
12. Stylistic edits & titles & captions & notes & sources & etc.
13. Added alternate text and colorblind accessibility options
14. Published