City of Minneapolis
2022 Gun Violence Overview

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Topics of Discussion

• Gun Violence Statistics & Landscape
  • Gun Crime Snapshot
  • Shooting Victim Analysis
    • Time of day / week
    • Demographics
  • Geospatial Analysis of Gun Crimes
  • Gun Tracing

• Overview of Strategic Operations Division
  • Mission, Strategies, and Tactics
  • Greater Minneapolis Violent Crimes Initiative
  • Focused Enforcement Details

• Metrics
  • YTD
  • Greater Minneapolis Violent Crimes Initiative

• Ongoing Work
  • Data Driven Gun Violence Indicators
Gun Violence Data Snapshot
Violent Crime Data

Data as of 8/8/22

<table>
<thead>
<tr>
<th>Crime Type</th>
<th>2022</th>
<th>2019*</th>
<th>% +/-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homicide</td>
<td>56</td>
<td>21</td>
<td>+166%</td>
</tr>
<tr>
<td>Gunshot Victims</td>
<td>354</td>
<td>176</td>
<td>+101%</td>
</tr>
<tr>
<td>Carjacking</td>
<td>328</td>
<td>53</td>
<td>+519%</td>
</tr>
<tr>
<td>Shooting Related Calls**</td>
<td>5,810</td>
<td>2,494</td>
<td>+133%</td>
</tr>
<tr>
<td>Person With a Gun Calls</td>
<td>1,045</td>
<td>813</td>
<td>+29%</td>
</tr>
<tr>
<td>Rounds Detected</td>
<td>12,849</td>
<td>3,888</td>
<td>+230%</td>
</tr>
<tr>
<td>Guns Recovered</td>
<td>648</td>
<td>572</td>
<td>+13%</td>
</tr>
<tr>
<td>DCC’s Recovered</td>
<td>~6,523</td>
<td>~1,796</td>
<td>+263%</td>
</tr>
</tbody>
</table>

* 2019 is the last year of “typical” data
** This includes, ShotSpotter Activations, Sound of Shots, Shootings
## Violent Crime Data

Data as of 8/8/22

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<tr>
<td>Homicide</td>
<td>56</td>
<td>56</td>
<td>n/a</td>
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<tr>
<td>Gunshot Victims</td>
<td>354</td>
<td>398</td>
<td>-11%</td>
</tr>
<tr>
<td>Carjacking</td>
<td>328</td>
<td>270</td>
<td>+21%</td>
</tr>
<tr>
<td>Shooting Related Calls*</td>
<td>5,810</td>
<td>6,410</td>
<td>-9%</td>
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<tr>
<td>Person With a Gun Calls</td>
<td>1,045</td>
<td>1,001</td>
<td>+4%</td>
</tr>
<tr>
<td>Rounds Detected</td>
<td>12,849</td>
<td>16,021</td>
<td>-19%</td>
</tr>
<tr>
<td>Guns Recovered</td>
<td>648</td>
<td>641</td>
<td>+1%</td>
</tr>
<tr>
<td>DCC’s Recovered</td>
<td>~6,523</td>
<td>~5,996</td>
<td>+9%</td>
</tr>
</tbody>
</table>

* This includes, ShotSpotter Activations, Sound of Shots, Shootings
On August 13th, 2020, analysts first noted the presence of fully automatic gunfire in a ShotSpotter activation at 37th and S 5th Ave.

This trend has only become more prevalent since then with auto sears (aka switches) commonly purchased online and are capable of being 3D printed.

In total, since August 13th, 2020, there have been 390 activations of full auto gunfire with 4,138 rounds detected.

From 1/1 to 8/8

- 2022: 183 full auto activations with 1,971 rounds fired
- 2021: 50 full auto activations with 578 rounds fired
  - +266% Increase in full auto activations
211 Days without a shooting (57%)
139 Days without a shooting (38%)
117 Days without a shooting (32%)
Gun Violence Crime Data – shooting victims

56 Days (of 217 Year to date) without a shooting (26%)
Gun Violence Crime Data – shooting victims

2019

2020

2021

2022
2022 Gun Violence Demographics

- 56% of shooting victims report residing in Minneapolis
  - 74% in 2019
- 54% of Arrestees for firearm offenses report residing in Minneapolis
  - St Paul – 9%
  - Brooklyn Park – 4.5%
  - Brooklyn Center – 3%
  - In 2019, 63% of arrestees resided in Minneapolis
• 83% of shooting victims are Black.
  • 9% White, 4% Native American, 3% Unk, 1% Asian

• 89% of shooting suspects are described as Black in cases where suspect descriptions were provided.
  • In 2021, there was 1 Black shooting victim for every 150 Black residents of Minneapolis.
    • The metric for White residents was 1 Shooting victim for every 3,768 residents
    • Black community members are disproportionately represented in shooting victim data

• 2/3 of our shooting victims are under the age of 31
In 2022, clusters of firearm and gun crime related calls for service* have been the densest in the following areas:

- Jordan Neighborhood
- Broadway Ave corridor, including Broadway and Lyndale
- Lowry and Knox, extending along the Lowry corridor
- 27th and Bloomington
- Franklin and Chicago
- 19th and Nicollet
- 15th and Nicollet

Many of these locations overlap with known gang territories and gathering places.

*Calls for service include shootings, ShotSpotter activations, sound of shots fired, and person with a gun calls
Where do guns recovered by MPD come from?
Gun Trace Analysis

• Straw Purchase
  • Involves someone who purchases a gun for someone who is prohibited by law from possessing one or for someone who does not want their name associated with the transaction.
  • Straw purchases are deemed a federal crime, punishable by up to 10 years in prison and a fine of up to $250,000.

• While most of our guns do not end up in our city by organized straw purchasers, we do actively track metrics indicative of straw purchasing
• Example: Sarah Jean Elwood of Crystal, MN was federally indicted in 2021 for straw purchasing and admitted to purchasing 97 firearms in a year, 62 of which were purchased in just 1 month.
  • 10 of these guns have been recovered in Minneapolis criminal investigations as recently as February of 2022.
Gun Trace Analysis

• Tracking "Gun Traces"
  • 68% of firearms recovered were originally purchased from within Minnesota in 2022
    • 5% from Wisconsin, remaining states at or under 2%
  • In the last 5 years, an average of 16.3% of guns recovered as evidence were originally purchased by Minneapolis residents
    • YTD in 2022, that number is 16.7%
In the last 2 years, guns recovered in criminal investigations have originated from original purchasers in 45 of 50 US States
- However, nearly 70% originate from Minnesota
While we do work closely with our federal partners to track patterns in gun recoveries originating outside the State, most of our guns are purchased in our own metro area.
2022 Gun Recovery Analysis

- 624 Guns recovered so far this year city-wide
  - +3% from 606 for the same time period in 2021
- 13 Firearms recovered this year were used in a crime within 30 days of purchase.
- 30 Firearms recovered this year were used in a crime within 90 days of purchase.
- 18% of guns (112 of 624) recovered this year are forensically connected to having been used in a prior crime.
Firearms Reported Stolen

- From 1/1/2022 to 8/8/2022, 282 firearms were reported stolen in Minneapolis
  - At least 45% of these were reported as having been stolen from vehicles
  - This is a 36% increase from 2021
    - +75% over 2 years from 2020
Strategic Operations Division
Mission & Goals

• Mission
  • Impact the occurrence of violent crimes in the City of Minneapolis and surrounding communities

• Goals
  • Develop and implement a plan using a Task Force concept of operations – force multiplier
  • Facilitate State and Federal criminal investigations
  • Collaborate with outreach and advocacy groups
Strategies

• Conduct criminal investigations
  • Pro-active
  • Re-active (in-custody)
  • Focused Enforcement Details
• Collaborate with other law enforcement and prosecuting agencies (2022 GMVCI)
• Use data, analytics, and forensic evidence to drive operations
• Provide OVP with data and personnel to assist with any outreach initiatives.
What is a Focused Enforcement Detail

• Pre-surveillance intel gathering
• Pre staged search warrants and arrest warrants
• Inter-agency collaboration that harnesses special capabilities of Local, State, and Federal partners
• Use data & analytics to deploy resources to specific areas and focus on specific people
• Disrupts criminal activity by deploying an overwhelming show of force in terms of personnel.
• Between May 11th and July 27th there were 12 days of Focused Enforcement Detail
Who Participates in a Focused Enforcement Detail

- Minneapolis Police Department - Gun Investigations Unit; SWAT; 1st and 4th Precinct Community Response Teams (CRT); Auto Theft Unit; Strategic Analysis Unit
- HCSO: Violent Offender Task Force; CISA; HC Jail – Booking Unit
- Hennepin County Probation
- Hennepin County Attorney
- MN BCA
- MN State Patrol
- St. Paul PD
- ATF; FBI; DEA; HSI
Forensic Lead Investigations

• National Integrated Ballistic Information Network (NIBIN)
  • Uses technology to match casings and firearms

• YTD Forensic NIBIN entries
  • 1101 Discharged Cartridge Casings (DCC’s)
    • 563 or 51% of DCC’s were matched with another incident
  • 569 Firearms
    • 112 or 20% of firearms were matched with another incident
# NIBIN Connections – Gun #4041

<table>
<thead>
<tr>
<th>Offense Type</th>
<th>Response Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assault with a Dangerous Weapon</td>
<td>10/6/2020</td>
</tr>
<tr>
<td>Homicide</td>
<td>12/20/2020</td>
</tr>
<tr>
<td>Damage to Property</td>
<td>3/1/2022</td>
</tr>
<tr>
<td>Damage to Motor Vehicle</td>
<td>3/19/2022</td>
</tr>
<tr>
<td>Homicide</td>
<td>3/28/2022</td>
</tr>
<tr>
<td>Discharge Weapon</td>
<td>4/7/2022</td>
</tr>
<tr>
<td>Damage to Motor Vehicle</td>
<td>4/11/2022</td>
</tr>
<tr>
<td>Damage to Property</td>
<td>4/23/2022</td>
</tr>
<tr>
<td>Damage to Property</td>
<td>4/29/2022</td>
</tr>
<tr>
<td>Homicide</td>
<td>6/9/2022</td>
</tr>
</tbody>
</table>

*Gun 4041 has not been recovered*
Focused Enforcement Detail
Impacts & Metrics
1/1 to 5/1 2022 Gun Crime Hotspots
Pre-Detail 2022 Gun Crime Hotspots

**North Focus Zones**
- Broadway Ave Corridor
- Golden Valley Rd and Penn Ave
- Lowry / Knox Ave N
- 36th St N and Penn
- Penn and Glenwood Ave

**South Focus Zones**
- Hennepin Ave from Washington Ave to 11th
- Loring Park to 15th & Nicollet
- NE Whittier
- Chicago & Franklin Ave
- Bloomington Ave from 25th to 29th
Routine Activities Theory (Cohen and Felson, 1979)
- Crime can be committed when the opportunity exists

3 Day Pre-Post Detail Hotspot Change - North

(Left) Density of proactive police activity during Focused Enforcement Details

(Right) Change in gun violence density comparing the 3 days prior to the 3 days following a Focused Enforcement Detail.

Density Change
- Most Significant Decrease
- More Significant Decrease
- Significant Decrease
- Moderate Decrease
- Slight Decrease
- No Change
- Slight Increase
Percent change of gun violence by Focus Zone (3 days prior to detail compared to 3 days after detail):

- Penn and Golden Valley Rd: -55%
- Lowry and Knox: -37%
- Broadway Ave Corridor: -26%
- 36th and Penn: -16%
- Penn and Glenwood: No Change
3 Day Pre-Post Detail Hotspot Change - South

(Above left) Density of proactive police activity during Focused Enforcement Details

(Above right) Change in gun violence density comparing the 3 days prior to the 3 days following a Focused Enforcement Detail.
Percent change of gun violence by focus zone:

- Hennepin Ave –35%
- Loring Park –15%
- NE Whittier –48%
- Franklin Ave and Chicago Ave –75%
- Bloomington Ave – no change
Focused Enforcement Detail
Outcomes

• 209 People arrested
  • Booked
  • Identified and released for follow up charging or investigation
• 108 Guns recovered – 17% of the total (648) over 12 days (5%) of the year.

• Narcotics

<table>
<thead>
<tr>
<th></th>
<th>Crack (grams)</th>
<th>Cocaine (grams)</th>
<th>Marijuana (grams)</th>
<th>Heroin (grams)</th>
<th>Meth (grams)</th>
<th>*Fentanyl (pills)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amount</td>
<td>53.9</td>
<td>24.34</td>
<td>804.83</td>
<td>111.5</td>
<td>4</td>
<td>3,870</td>
</tr>
<tr>
<td>State Value</td>
<td>$7,276</td>
<td>$2,507</td>
<td>$40,241</td>
<td>$15,498</td>
<td>$300</td>
<td>**$100,620</td>
</tr>
<tr>
<td>Metro Value</td>
<td>$6,683</td>
<td>$2,555</td>
<td>$64,386</td>
<td>$15,052</td>
<td>$140</td>
<td>**$69,660</td>
</tr>
</tbody>
</table>

*Average weight of a Fentanyl Pill being 1.1mg
** Price Per Pill
## 1/1 to 8/5 Shooting Victim Counts

<table>
<thead>
<tr>
<th>Precinct</th>
<th>Precinct 1</th>
<th>Precinct 2</th>
<th>Precinct 3</th>
<th>Precinct 4</th>
<th>Precinct 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021</td>
<td>41</td>
<td>31</td>
<td>99</td>
<td>188</td>
<td>20</td>
</tr>
<tr>
<td>2022</td>
<td>67</td>
<td>31</td>
<td>76</td>
<td>136</td>
<td>35</td>
</tr>
<tr>
<td>% Change</td>
<td>+63%</td>
<td>n/a</td>
<td>-23%</td>
<td>-28%</td>
<td>+75%</td>
</tr>
</tbody>
</table>

- Since May 1st 2022, gunshot victims have decreased by 40% in the 4th Precinct (North Minneapolis) compared to the same time period in 2021.
- Since May 1st 2022, gunshot victims have decreased by 5% in the 1st Precinct, reversing course from prior to the start of the Focused Enforcement Details on May 1st.
Data Driven Gun Violence Indicators
The Road Ahead

- Analyzing 'Shooting' calls for service – looking for gun violence indicators.

<table>
<thead>
<tr>
<th>Explanatory variable</th>
<th>Significance</th>
<th>Relationship</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sum of Fentanyl Pills Recovered</td>
<td>91.77%</td>
<td>100% Positive</td>
</tr>
<tr>
<td>Sum of Rounds Detected</td>
<td>92.62%</td>
<td>99.99% Positive</td>
</tr>
<tr>
<td>Proportion of Home Ownership</td>
<td>56.80%</td>
<td>96.20% Negative</td>
</tr>
</tbody>
</table>

*Data selected from May 11th through July 28th.*
Preliminary analysis looking at calls for service for 'Sound of Shots Fired' per neighborhood, and rounds detected via ShotSpotter have routinely returned results including these significant variables.

### Explanatory variables

<table>
<thead>
<tr>
<th>Variable</th>
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<tbody>
<tr>
<td>Populations of 0 to 4 Years of Age</td>
</tr>
<tr>
<td>Populations of 5 to 9 Years of Age</td>
</tr>
<tr>
<td>Populations of 10 to 14 Years of Age</td>
</tr>
<tr>
<td>Proportion of Renter Population</td>
</tr>
<tr>
<td>Proportion of Home Ownership</td>
</tr>
</tbody>
</table>

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Key Take-Aways

• Working in collaboration with key stakeholders and facilitating Focused Enforcement Details is having an impact.

• Majority of guns being recovered in Minneapolis originated from Minnesota.

• Fentanyl, populations of specific age groups, and housing demographics, have emerged as indicative explanatory variables where gun violence commonly occurs.
  • These data driven variables have the potential to help guide leaders throughout the city enterprise to think creatively about ways to impact gun violence.