Aggravated Assaults

CRIME ANALYSIS ON DOMESTIC VIOLENCE

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Office of Management Analysis and Planning
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Health Data User Group (HUG)
Introduction

• Aggravated Assaults-Domestic Violence (DV)

• Unit of Analysis

• Innovations in Community Based Crime Reduction (CBCR)-Partners
DATA

• Calls for Service
• Incident Reports
• Geospatial component
• Unit of Analysis-Neighborhood Geography
Preliminary Results

• Calls for Service
  • 6% increase in calls for service as of October 2017 compared to 2016*
  • Among the top three most common call types was Battery-DV.

*Preliminary calls for service data was analyzed for the time period of January 1st-October 31st, 2016-2017.
Preliminary Results

- Incident Reports
  - 24% increase in Aggravated Assaults at the end of 2017 compared to 2016*.
  - 39% of Aggravated Assaults in 2017 were DV related.

*Preliminary incident data was analyzed for full years 2007-2017.

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**Aggravated Assaults**

2015-2017 | Focus Area**

- Agg. Assault
- DV-Related

<table>
<thead>
<tr>
<th>Year</th>
<th>Agg. Assault</th>
<th>DV-Related</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>226</td>
<td>74</td>
</tr>
<tr>
<td>2016</td>
<td>188</td>
<td>62</td>
</tr>
<tr>
<td>2017</td>
<td>234</td>
<td>91</td>
</tr>
</tbody>
</table>

**Data counts distinct incidents of aggravated assaults for full years 2015-2017 only within the specified geographic boundary.**
Temporal Analysis

• Month
  • Summer months had the most incident reports*.

• Weekday
  • Sunday-Tuesday**.

• Time
  • 8pm-12am time frame had the most reports.

*November and December months in 2017 had similar counts of incident reports.
**No pattern was found when only analyzing 2017 data.
Spatial Analysis

- Kernel Density and contour layers were created to identify low-high concentrations of DV and non-DV aggravated assaults.

- Moderate-High concentrations of assaults were found in the North-West part of the geo-boundary.

2017 DV-Aggravated Assaults were analyzed in-depth (n=91).
Victims

- Over 70% of the victims were females. On average, males represented about 25% of victims*.

- Both males and females were mostly between 24yrs-39yrs of age. There was a large representation of older male victims in 2017.

*Average includes 2015-2017 male victim data.
Victims

• Means of Attack
  • 38% involved personal weapons (e.g. hands, feet and/or fists),
  • 24% involved a firearm,
  • 17% involved a knife.

• Extent of Injury
  • 29% had no visible injuries,
  • 20% involved minor injury,
  • 14% involved strangulations.

• In a manual review, 19% of incidents reported alcohol/drugs being present during the incident.*

*Data pertains only to 2017 DV victim sample.

<table>
<thead>
<tr>
<th>Means of Attack</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Firearm</td>
<td>8</td>
</tr>
<tr>
<td>Firearm/Threats</td>
<td>9</td>
</tr>
<tr>
<td>Firearm/Hands, Feet and/or Fists</td>
<td>6</td>
</tr>
<tr>
<td>Hands, Feet and/or Fists</td>
<td>36</td>
</tr>
<tr>
<td>Knife/Hands, Feet and/or Fists</td>
<td>4</td>
</tr>
<tr>
<td>Knife</td>
<td>7</td>
</tr>
<tr>
<td>Knife/Threats, Other</td>
<td>5</td>
</tr>
<tr>
<td>Other/Threats</td>
<td>17</td>
</tr>
<tr>
<td>Unknown</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>94</td>
</tr>
</tbody>
</table>
Suspects

• 36 suspects were arrested in 2017.

• 64% of arrestees were males and 36% were females. Both males and females were between 24yrs-39yrs of age.

• In 64% of cases, a weapon was used by arrestees (e.g. firearm, knife).

• In over 67% of cases, the victim was boyfriend/girlfriend or co-habitants.

• 89% of home addresses reported by arrestees were within the same neighborhood geography.
Limitations

• Sample of DV-Aggravated Assault data was only from 2015-2017.

• Data only analyzed within a specific geographic boundary.

• Victimization data only focuses on primary victim.

• Manual review of incidents was only conducted for 2017.
Next Steps

• Share findings and have open discussion with Community Partners.

• Collaborate on analysis with other partners collecting similar data.

• Identify community partners and resources already focusing on DV.

• Research/identify successful interventions related to DV.