Aggravated Assaults
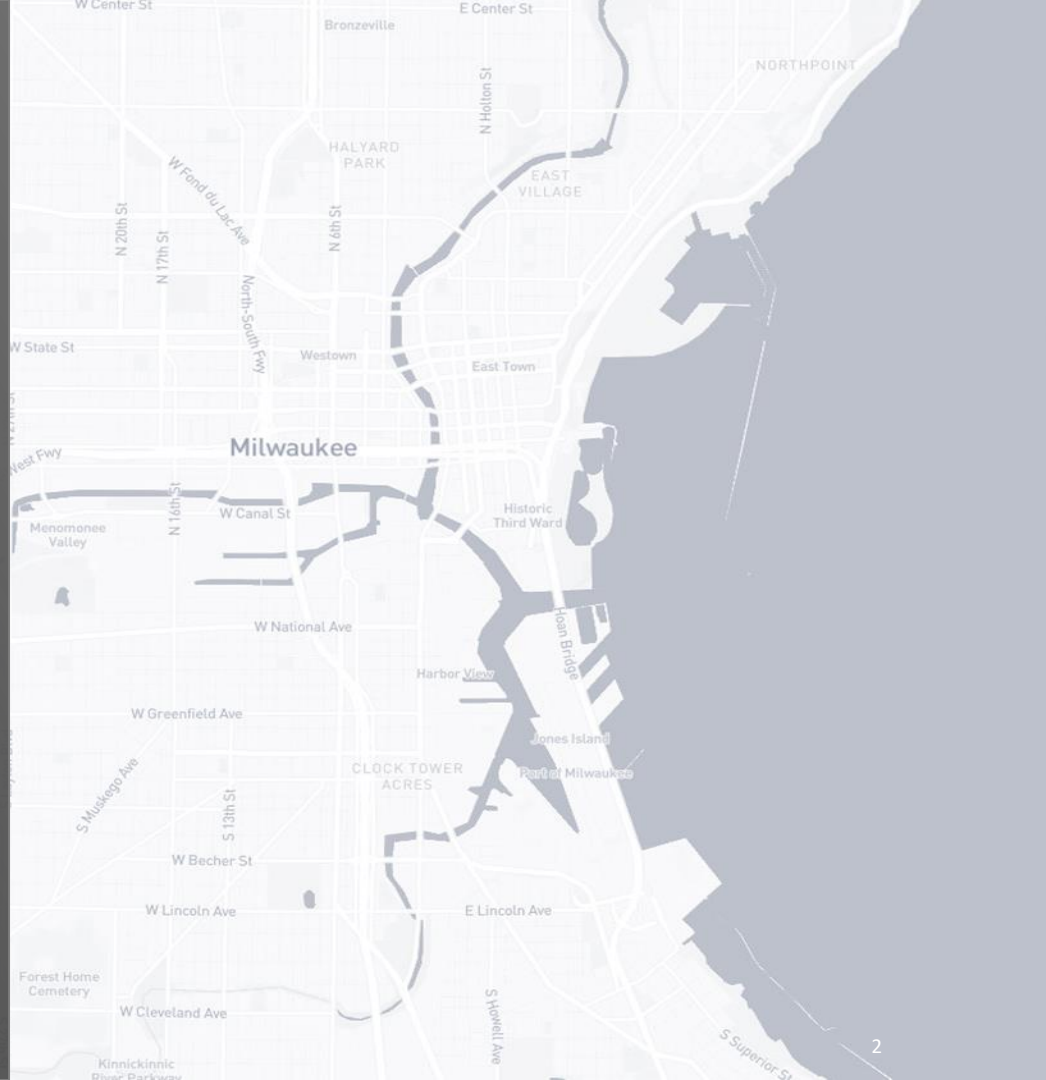
CRIME ANALYSIS ON DOMESTIC VIOLENCE

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Introduction

- Aggravated Assaults-Domestic Violence (DV)

- Unit of Analysis

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

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DATA

- Calls for Service

- Incident Reports

- Geospatial component

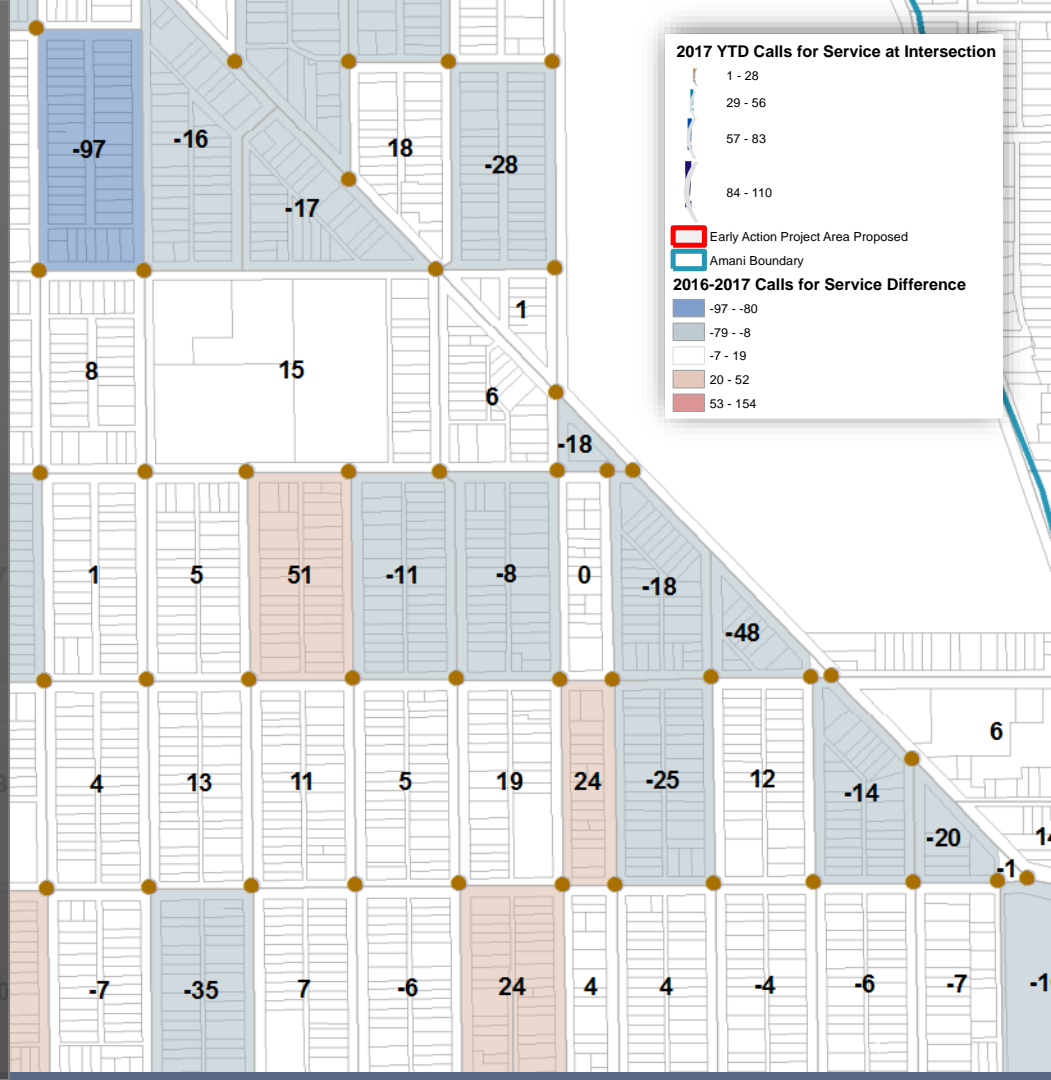- Unit of Analysis- Neighborhood Geography

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.

2017 YTD Calls for Service at Intersection

1 - 28
29 - 56
57 - 83
84 - 110

Early Action Project Area Proposed
Amani Boundary

2016-2017 Calls for Service Difference
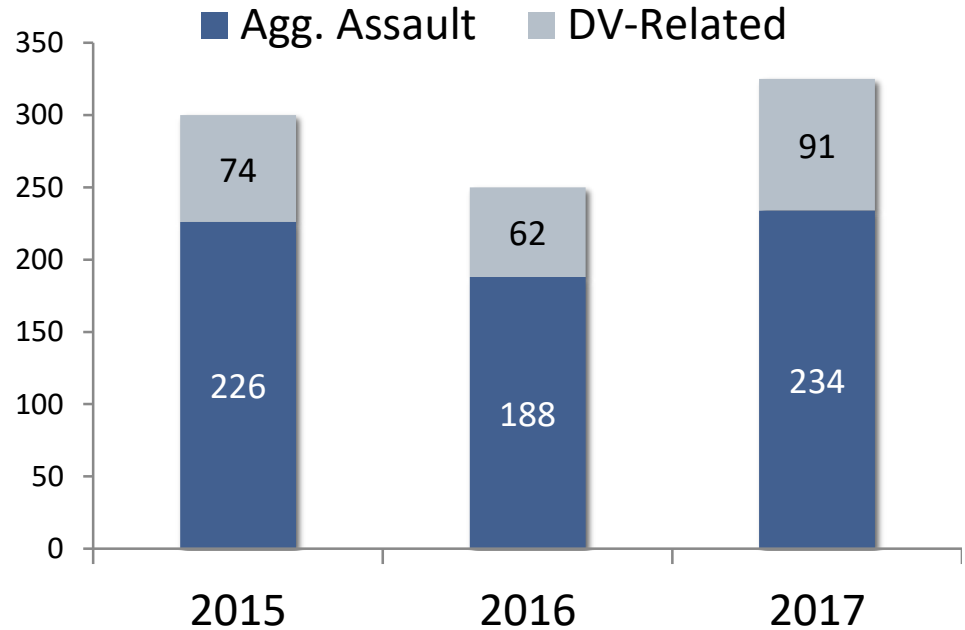-97 - -80
-79 - -8
-7 - 19
20 - 52
53 - 154

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.

Aggravated Assaults
2015-2017 | Focus Area**

■ Agg. Assault ■ DV-Related

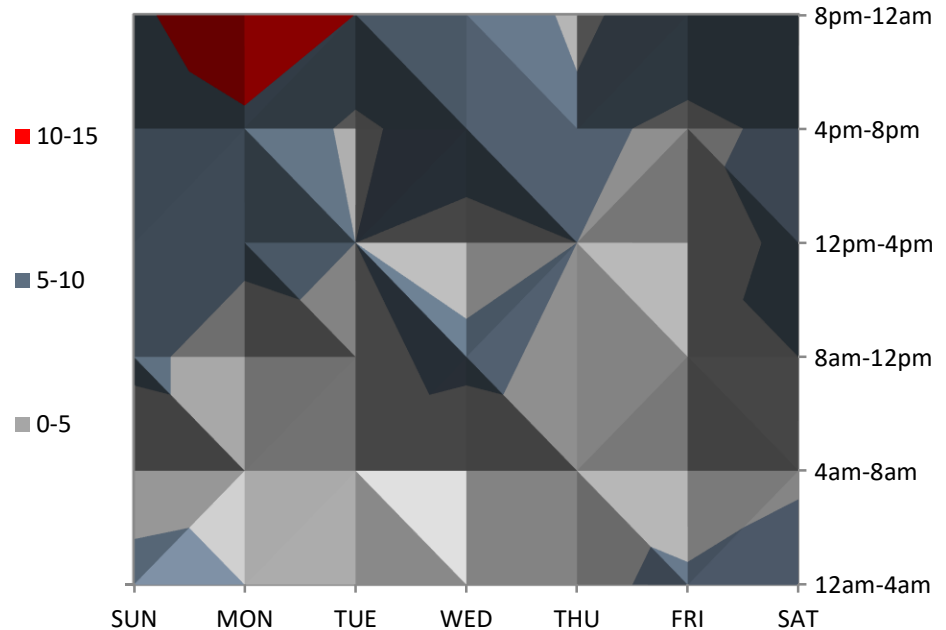| Year	Agg. Assault	DV-Related
2015	226	74
2016	188	62
2017	234	91

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

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

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Temporal Analysis

- ## Month
  - Summer months had the most incident reports*.

- ## Weekday
  - Sunday-Tuesday**.
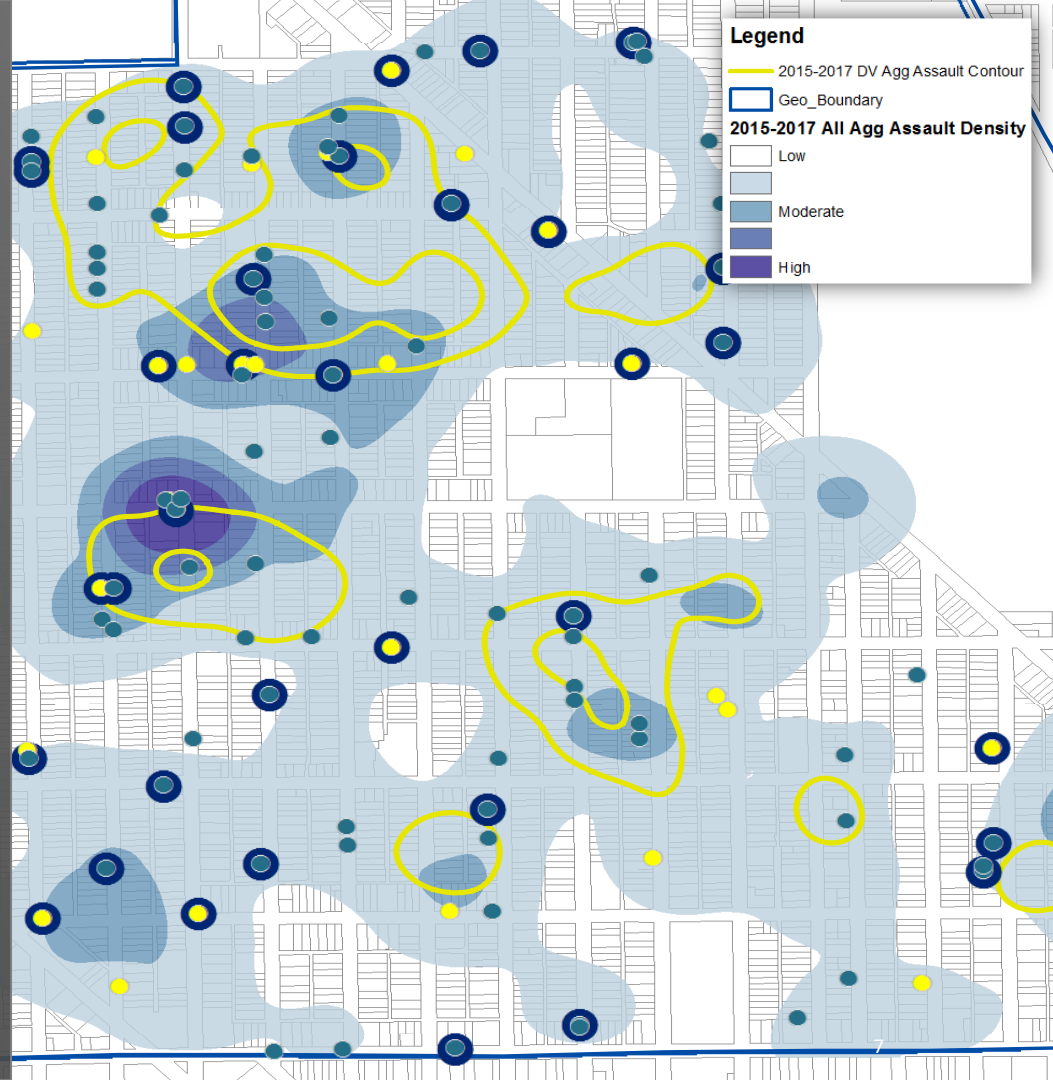
- ## Time
  - 8pm-12am time frame had the most reports.

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

Aggravated Assaults-DV
2015-2017 | Focus Area

Legend:
- 10-15
- 5-10
- 0-5

X-axis: SUN, MON, TUE, WED, THU, FRI, SAT
Y-axis: 8pm-12am, 4pm-8pm, 12pm-4pm, 8am-12pm, 4am-8am, 12am-4am

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.

For more information regarding Kernel Density and its calculation please visit:
http://pro.arcgis.com/en/pro-app/tool-reference/spatial-analyst/how-kernel-density-works.htm

Legend
2015-2017 DV Agg Assault Contour
Geo_Boundary
2015-2017 All Agg Assault Density
Low
Moderate
High

DATA SAMPLE

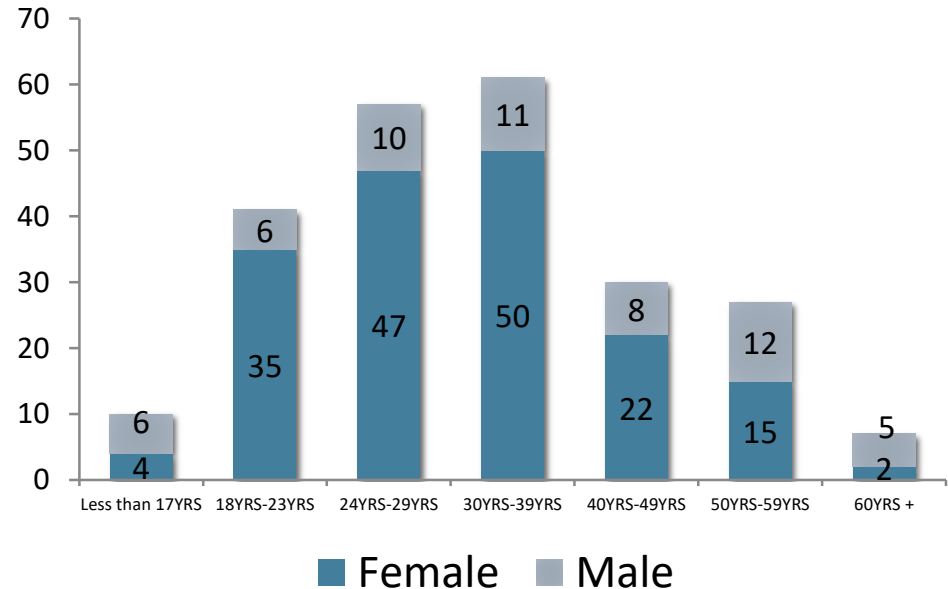- 2017 DV-Aggravated Assaults were analyzed in-depth (n=91).

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.

Victims by Age Group
2015-2017

Age Group	Female	Male
Less than 17YRS	4	6
18YRS-23YRS	35	6
24YRS-29YRS	47	10
30YRS-39YRS	50	11
40YRS-49YRS	22	8
50YRS-59YRS	15	12
60YRS +	2	5

■ Female ■ Male

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.*

Means of Attack	Total
Firearm	8
Firearm/Threats	9
Firearm/Hands, Feet and/or Fists	6
Hands, Feet and/or Fists	36
Knife/Hands, Feet and/or Fists	4
Knife	7
Knife/Threats, Other	5
Other/Threats	17
Unknown	2
Total	94

*Data pertains only to 2017 DV victim sample.

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.