

Northside Traffic Analysis

Colerain Av/Virginia Av Compared
to Hamilton Av

Date Compiled: 10/25/2021

Compiled By: Katalin Howard

CPD Crime Analysis Unit



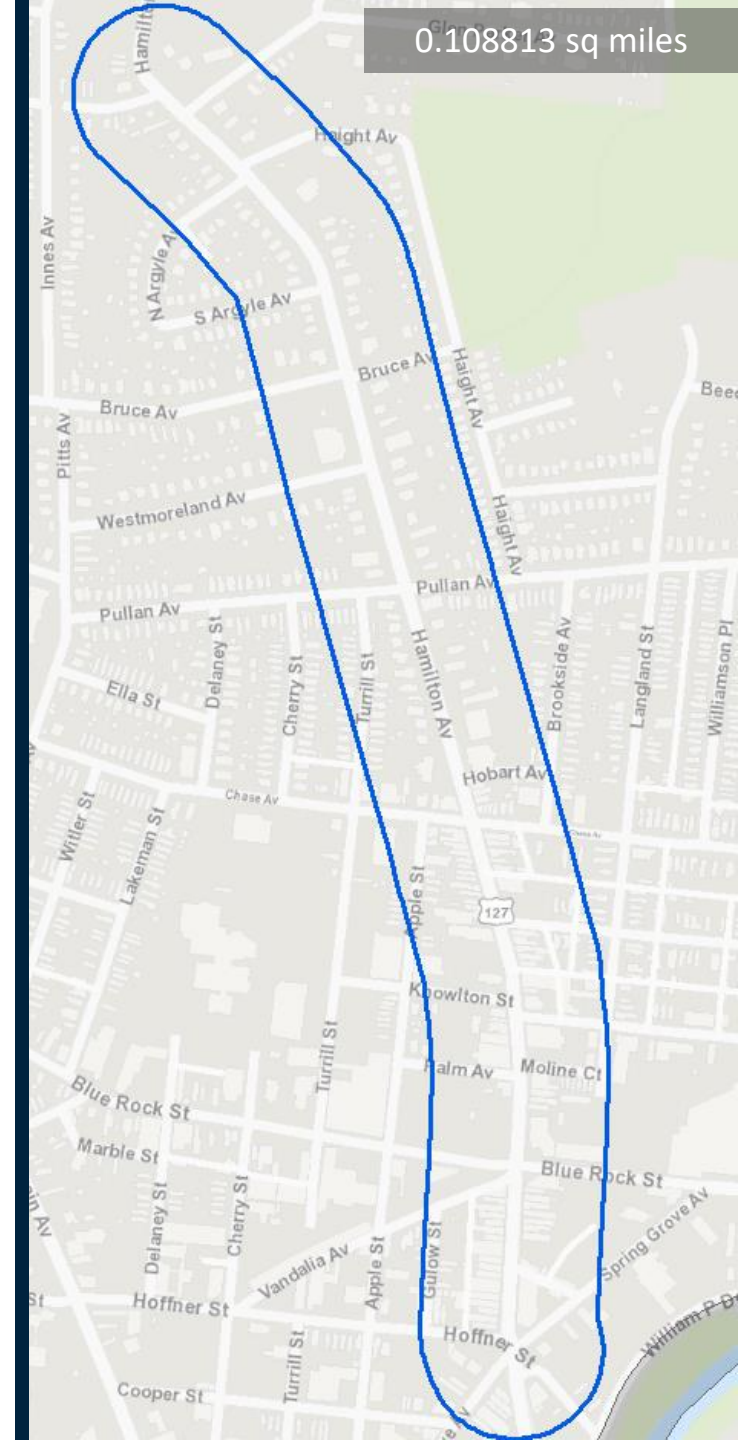
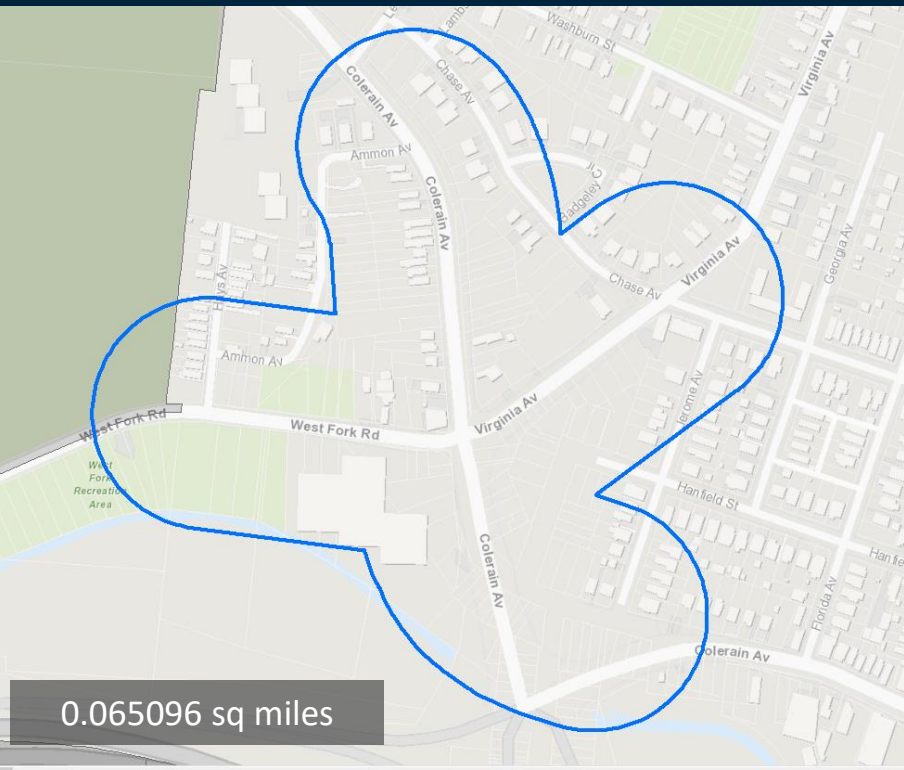
Locations of Interest

The areas of interest are:

- The intersection of Colerain Av/Virginia Av
- The 4000 -4800 block of Hamilton Av

Hamilton Av covers 50% more surface area than Colerain/Virginia Av

Some numbers in this report have been standardized for the purpose of creating a more accurate comparison of the two locations (Colerain/Virginia Av numbers are increased by 50%)



Brief Overview

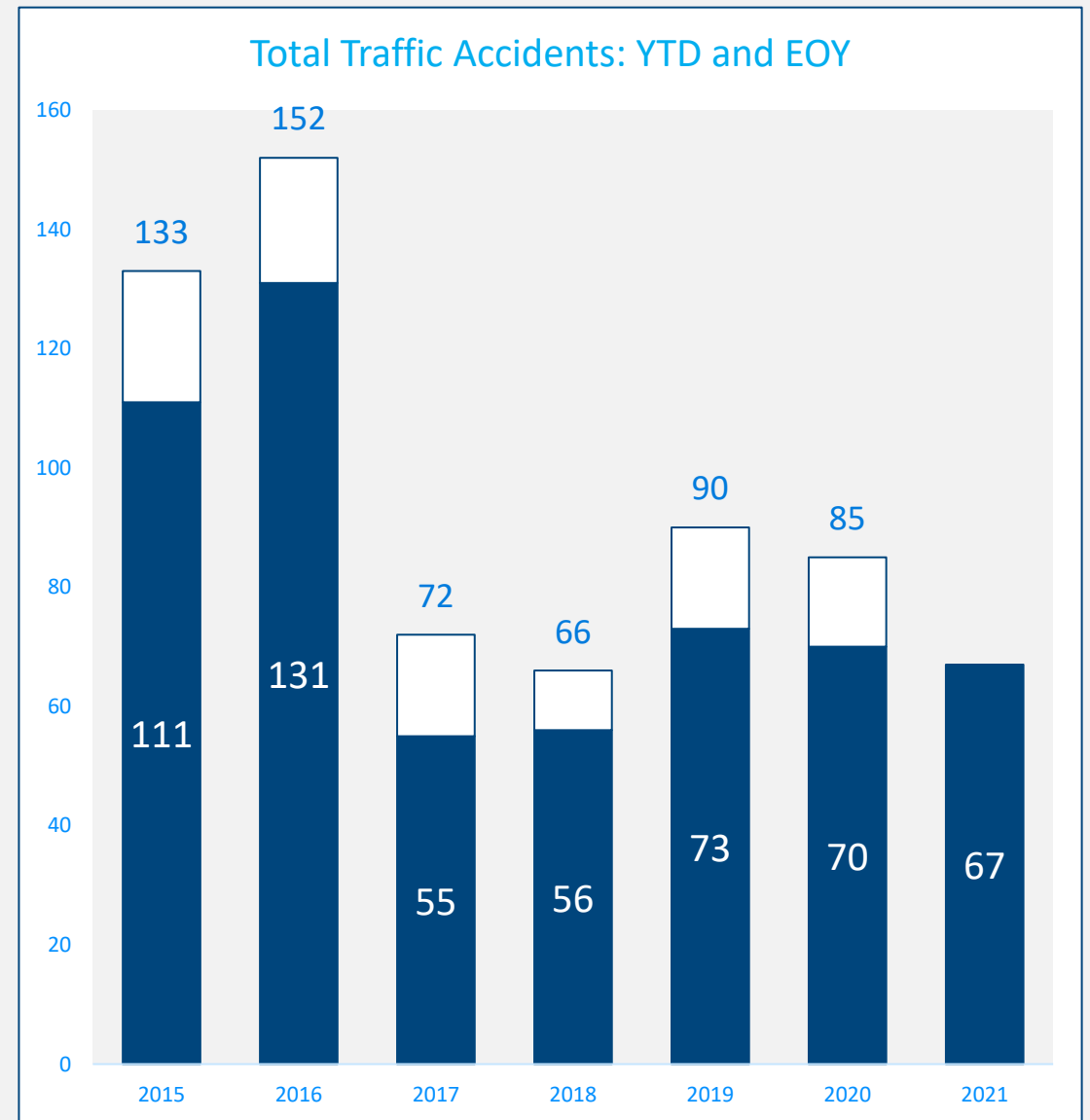
Colerain Av/Virginia Av





Colerain/Virginia Av Total Traffic Accidents

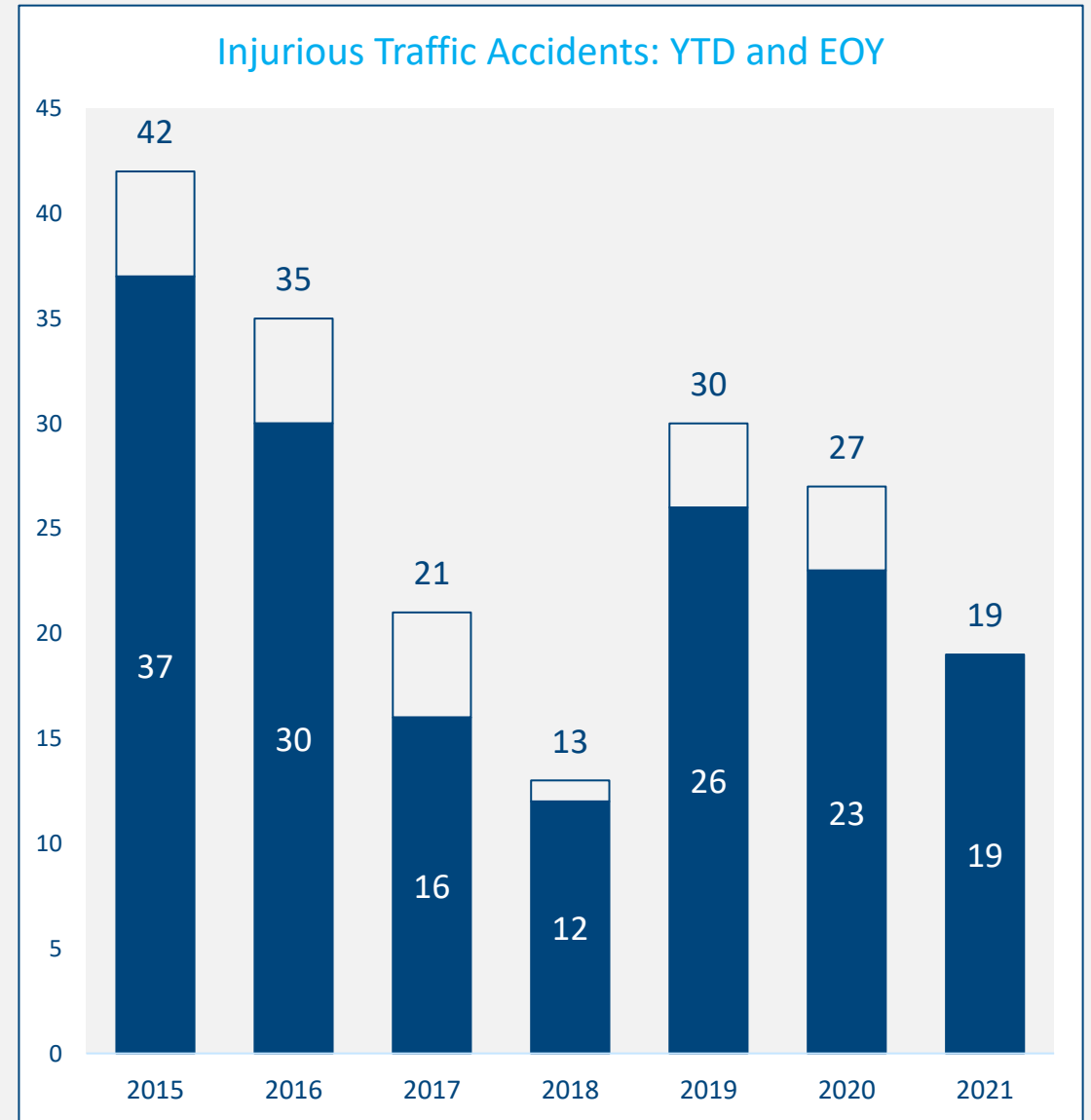
- Compared to YTD 2020, the area has seen a **4%** decrease in total accidents
- Compared to the Average number of YTD accidents at this location, there has been a **23%** decrease.
 - YTD Average: **83**
 - EOY Average: **100**
- On average, this location accounts for **16%** of Northside's total traffic accidents
- Currently, the location is accounting for **16%** of Northside's total traffic accidents





Colerain/Virginia Av Injurious Traffic Accidents

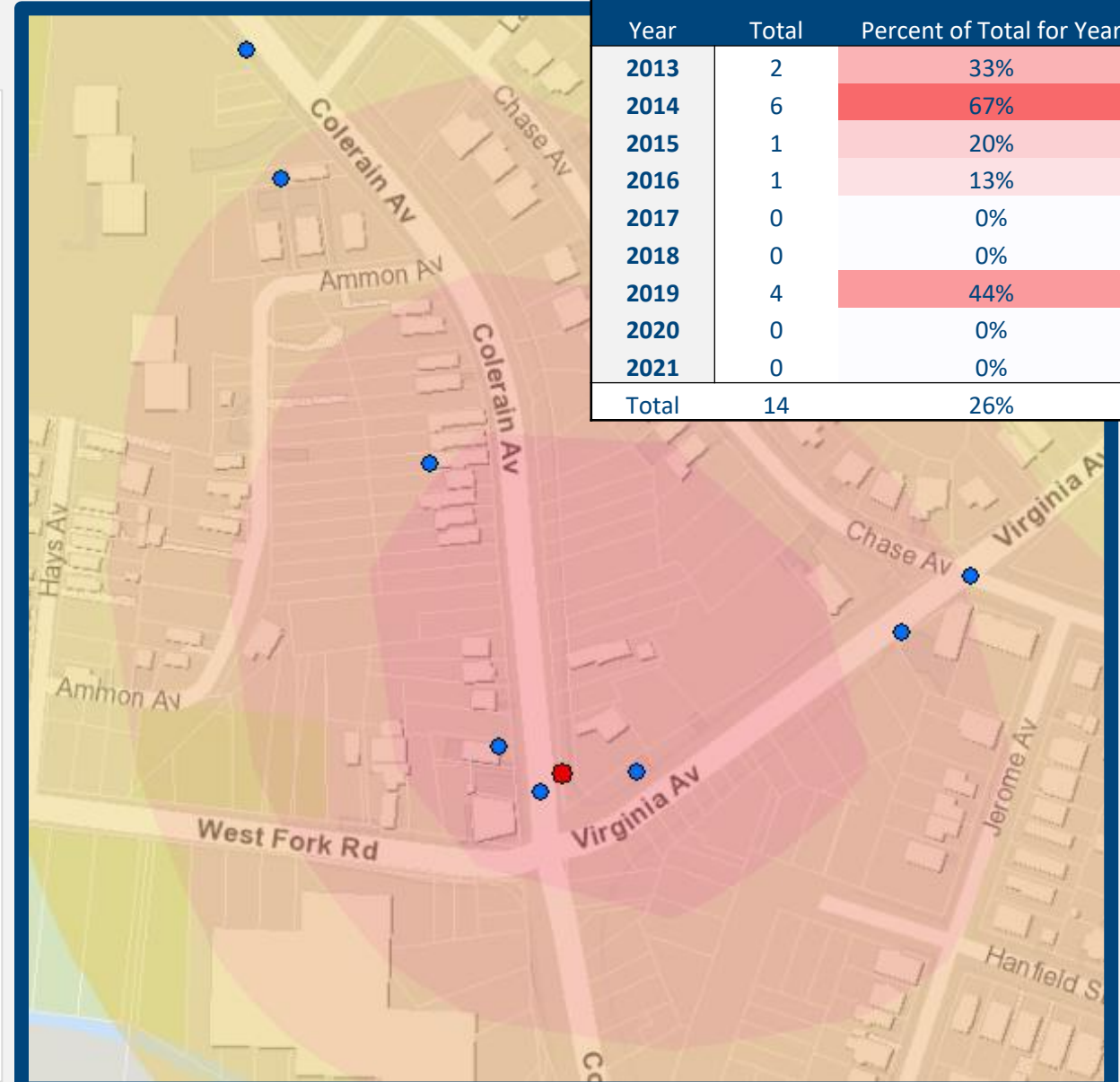
- Compared to YTD 2020, the area has seen a **21% decrease** in total accidents
- Compared to the Average number of YTD accidents at this location, there has been a **26% decrease**.
 - YTD Average: **24**
 - EOY Average: **27**
- On average, the location calls for **20%** of Northside's injurious accidents
- Currently, the location accounts for **19%** of Northside's injurious accidents





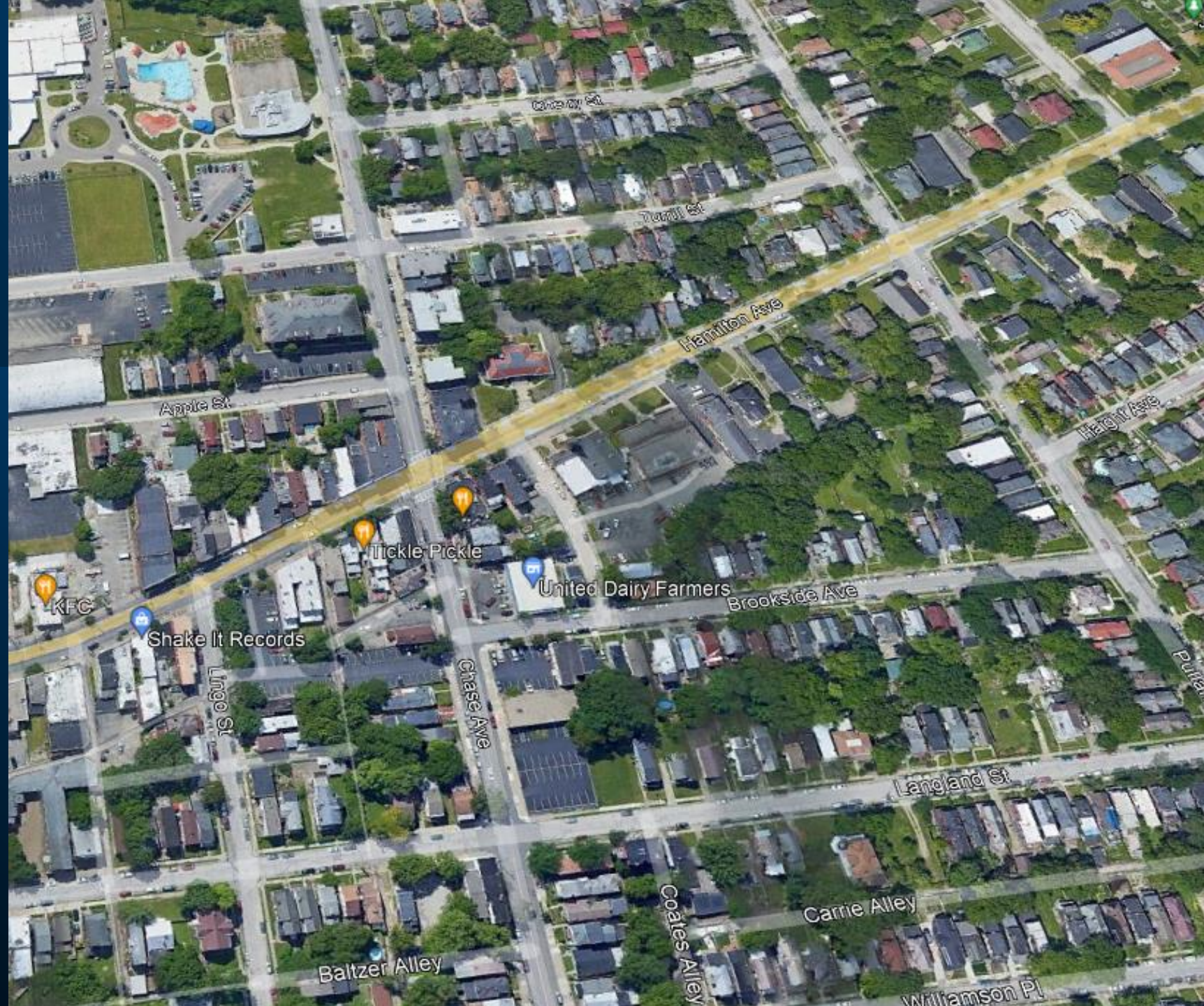
HotSpot: Colerain Av/ Virginia Av

- The intersection of Colerain Av/ Virginia Av accounted for **14 (26%)** of the Total Pedestrian involved accidents in Northside from 1/1/2013 – 10/18/2021
- In 2014, the intersection accounted for **6 (67%)** of the total pedestrian involved accidents.
- In 2019, the intersection accounted for **4 (44%)** of the total pedestrian involved accidents.
- In 2020, the intersection had **0** pedestrian involved accidents. To date, in 2021, there have also been **0** pedestrian involved accidents at this intersection.
- The intersection accounts for **one** fatal incident. During this incident, the victim was not in a designated crosswalk and walked into moving traffic. There were two striking units (vehicles), one of the vehicles fled the scene
- This location is the most common area for all Traffic Accidents (non pedestrian involved) in Northside



Brief Overview

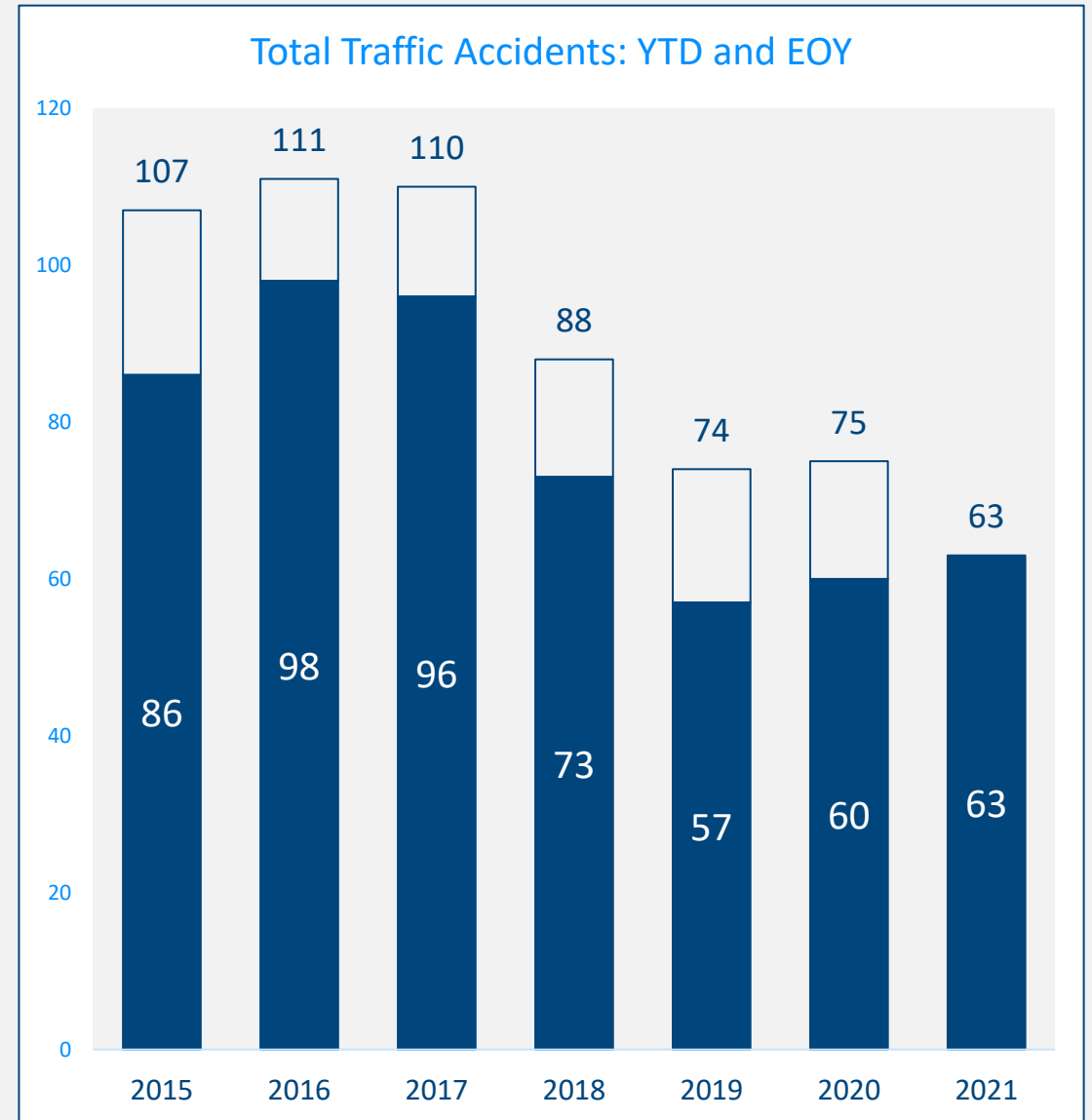
Hamilton Av





Hamilton Av Total Traffic Accidents

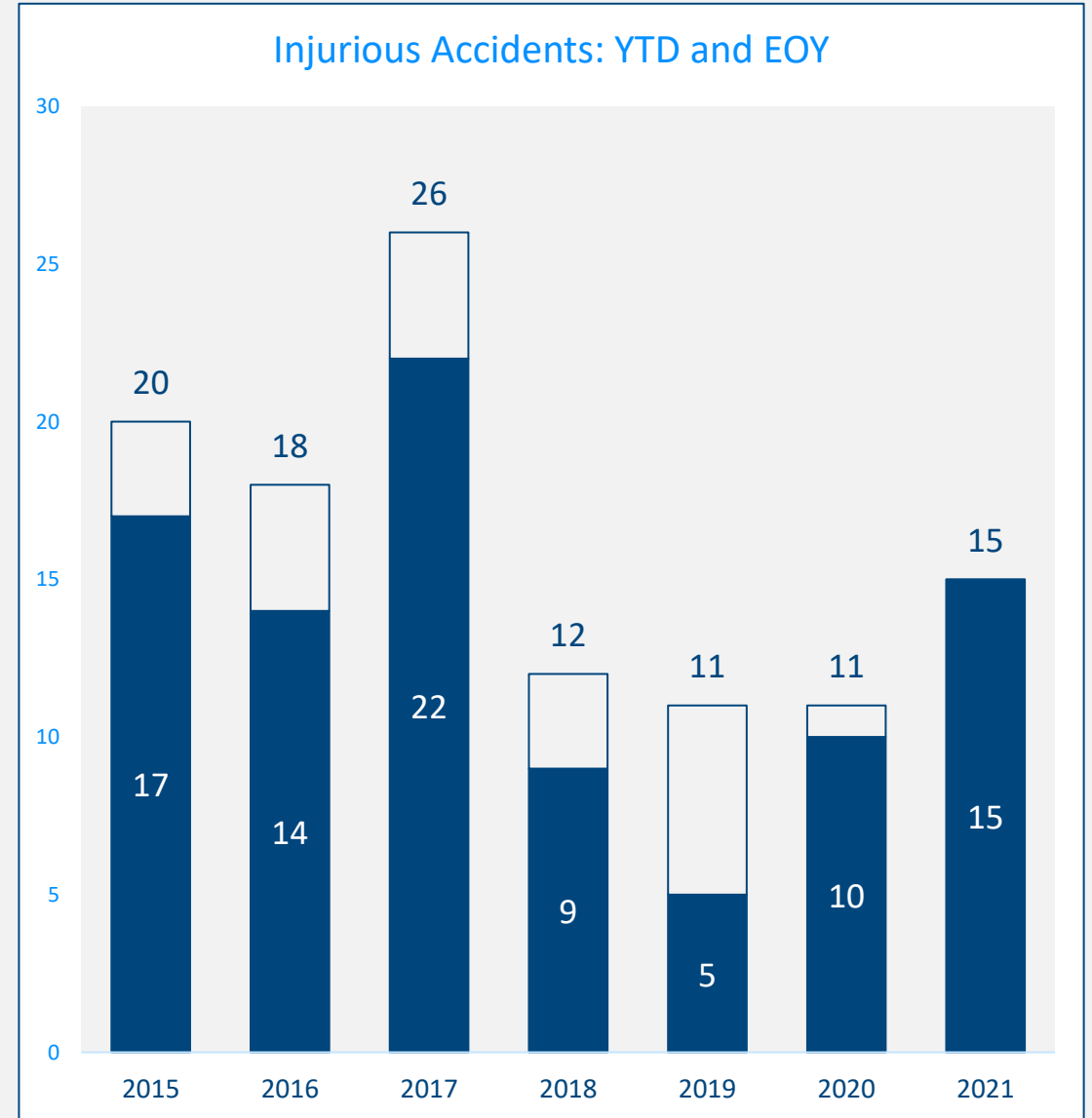
- Compared to YTD 2020, the area has seen a **5%** decrease in total accidents
- Compared to the Average number of YTD accidents at this location, there has been a **24%** decrease.
 - YTD Average: 78
 - EOY Average: 94
- On Average, this location accounts for **16%** of Northside's total traffic accidents
- In 2017, the location accounted for **19%** of Northside's total traffic accidents
- Currently, the location is accounting for **15%** of Northside's total traffic accidents





Hamilton Av Injurious Traffic Accidents

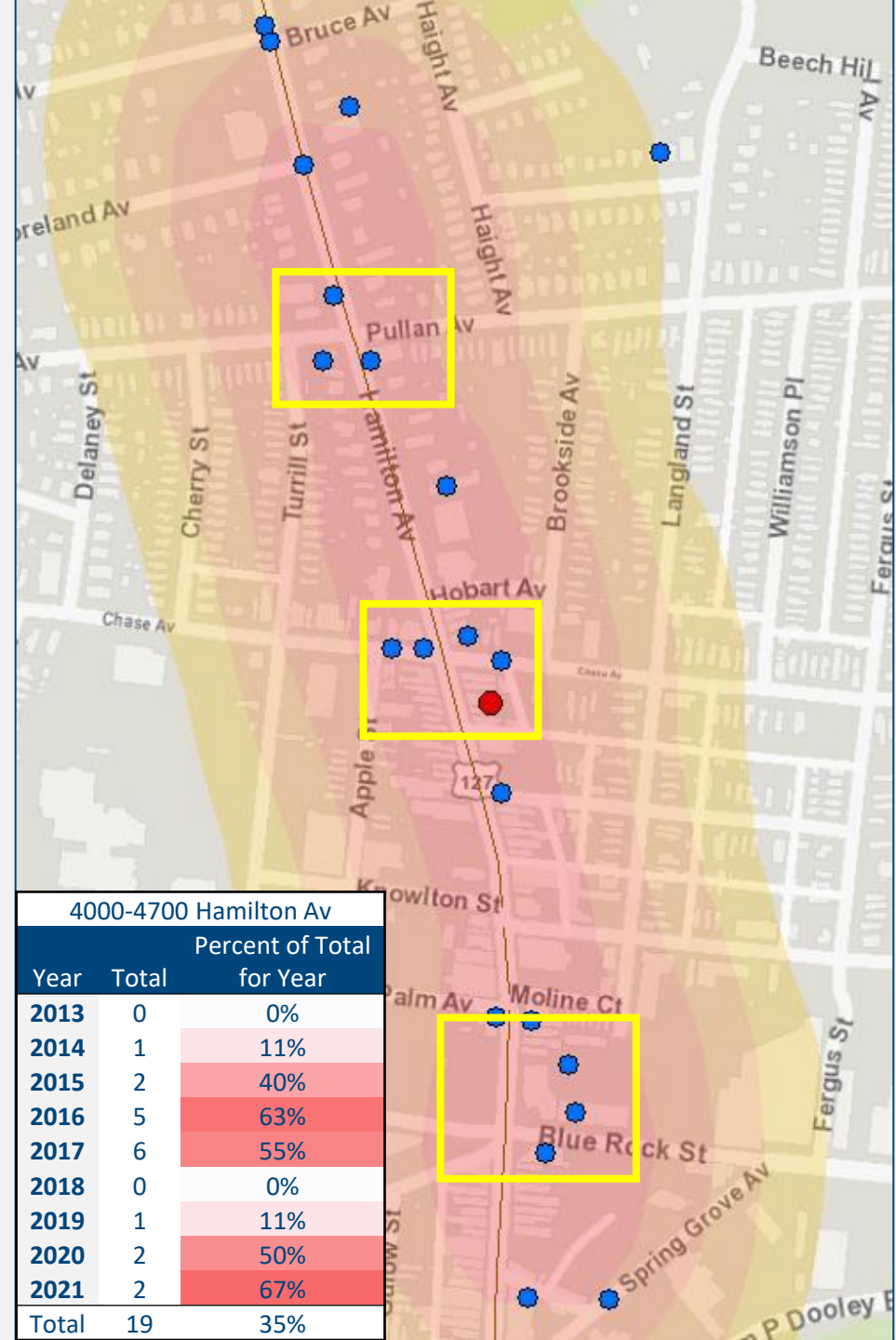
- Compared to YTD 2020, the area has seen a **33% increase** in total accidents
- Compared to the Average number of YTD accidents at this location, there has been a **14% decrease**.
 - YTD Average: **13**
 - EOY Average: **16**
- On average, the location calls for **12%** of Northside's injurious accidents
- In 2017, the location accounted for **21%** of Northside's Injurious Accidents
- Currently, the location accounts for **15%** of Northside's injurious accidents





HotSpot: Hamilton Av

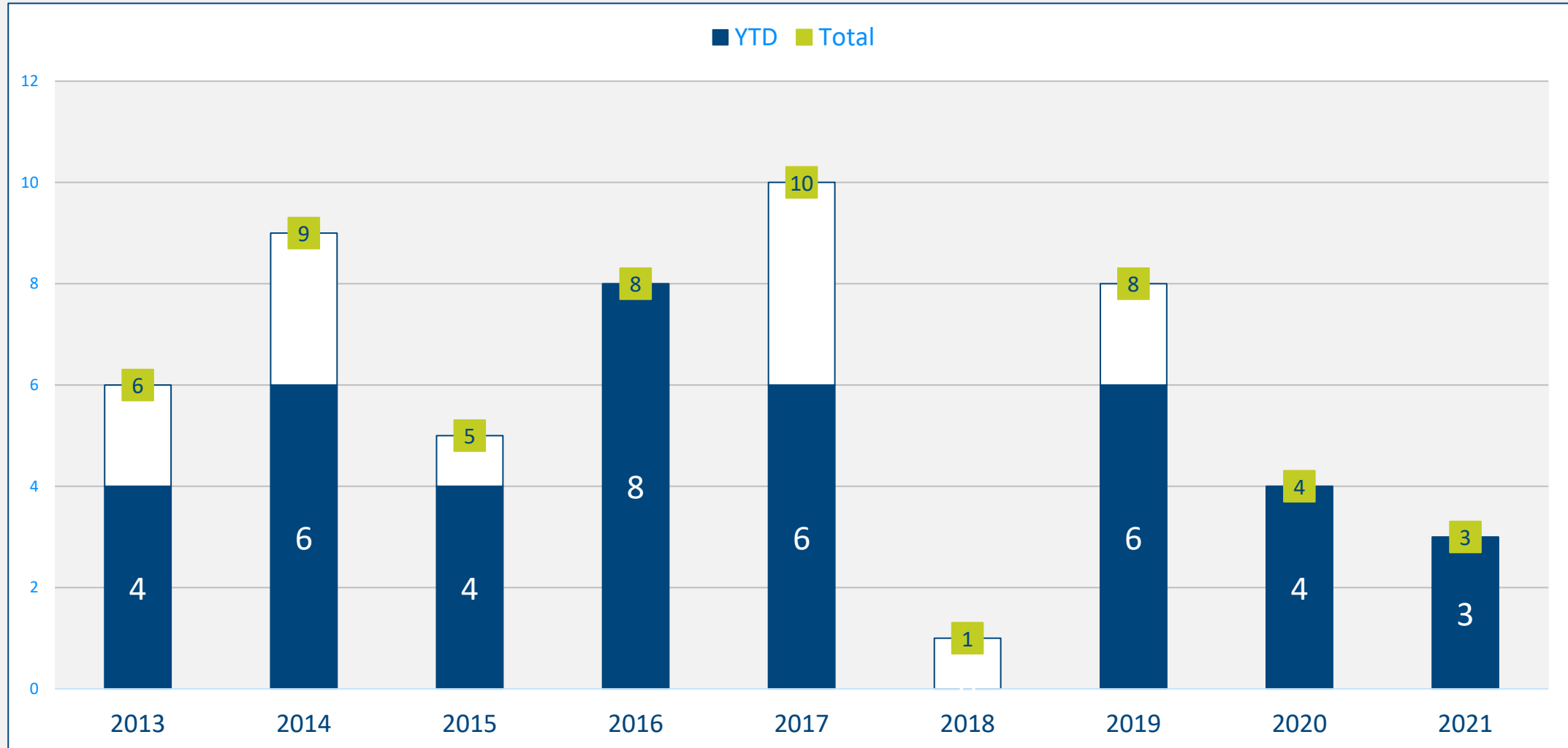
- 4000 – 4700 Hamilton Av has accounted for **19 (35%)** of the total pedestrian involved accidents in Northside from 1/1/2013 – 10/18/2021
- In **2016**, this area accounted for **5 (66%)** of the total pedestrian involved accidents for the year.
- So far, for **2021**, this area has accounted for **2 (67%)** of the pedestrian involved accidents for the year.
- The area accounts for **one** of fatal pedestrian involved accidents in Northside. The victim of this incident was outside of the marked crosswalk for Hamilton Av/Chase Av. The vehicle was traveling Northbound on Hamilton Av in the right lane.
- The most common intersections along Hamilton Av are
 - Hamilton/Pullan,
 - Hamilton/Chase,
 - Hamilton/Blue Rock



4000-4700 Hamilton Av		
Year	Total	Percent of Total for Year
2013	0	0%
2014	1	11%
2015	2	40%
2016	5	63%
2017	6	55%
2018	0	0%
2019	1	11%
2020	2	50%
2021	2	67%
Total	19	35%

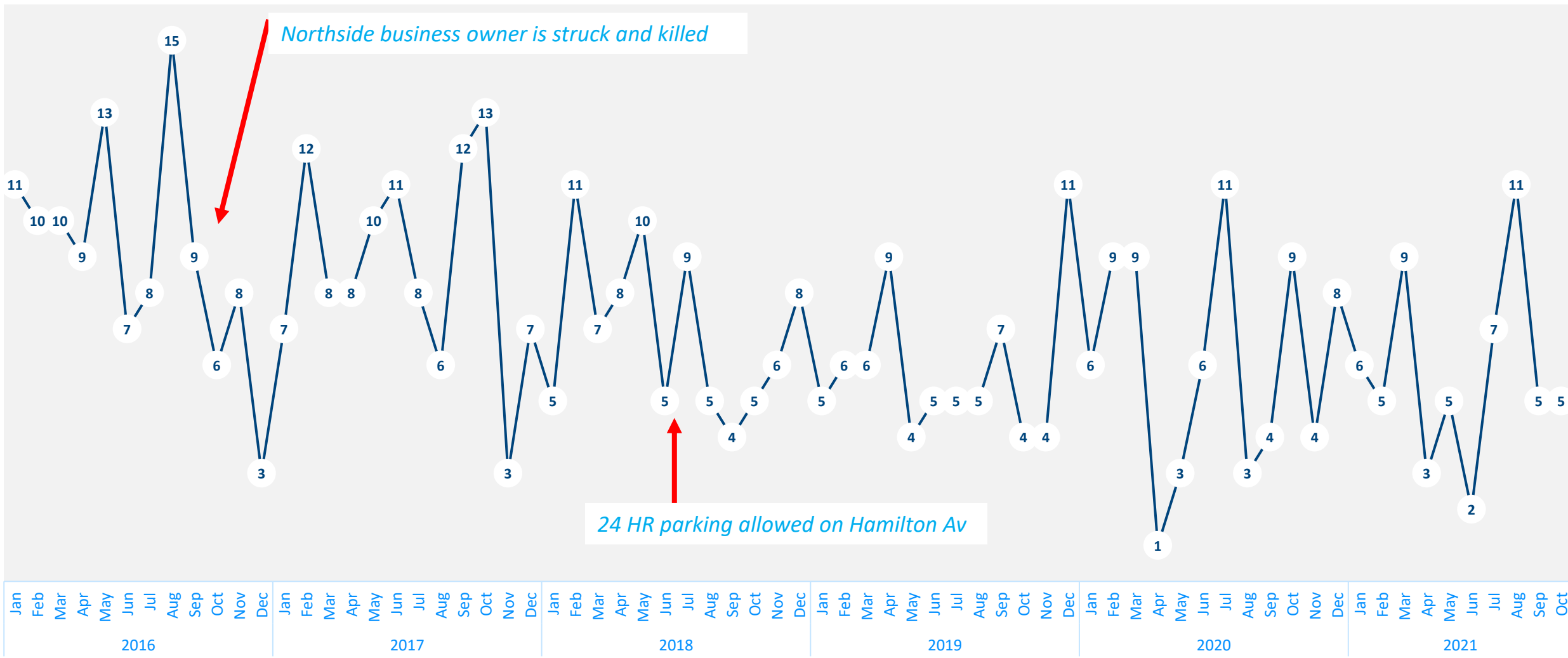


Pedestrians Struck in Northside: 2013 - 2021



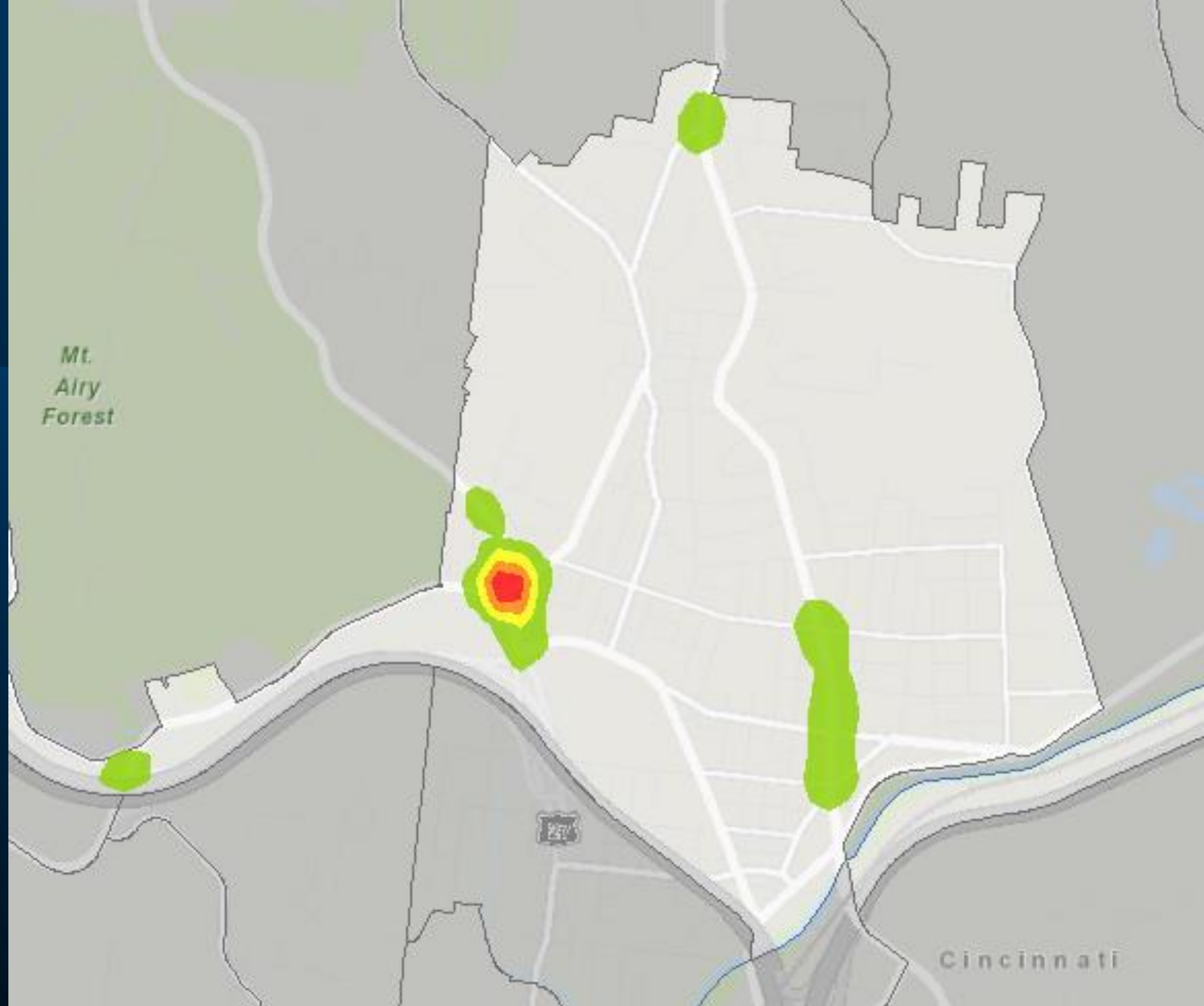


Hamilton Av and Surrounding Intersections: All Traffic Accidents 2016 - Present

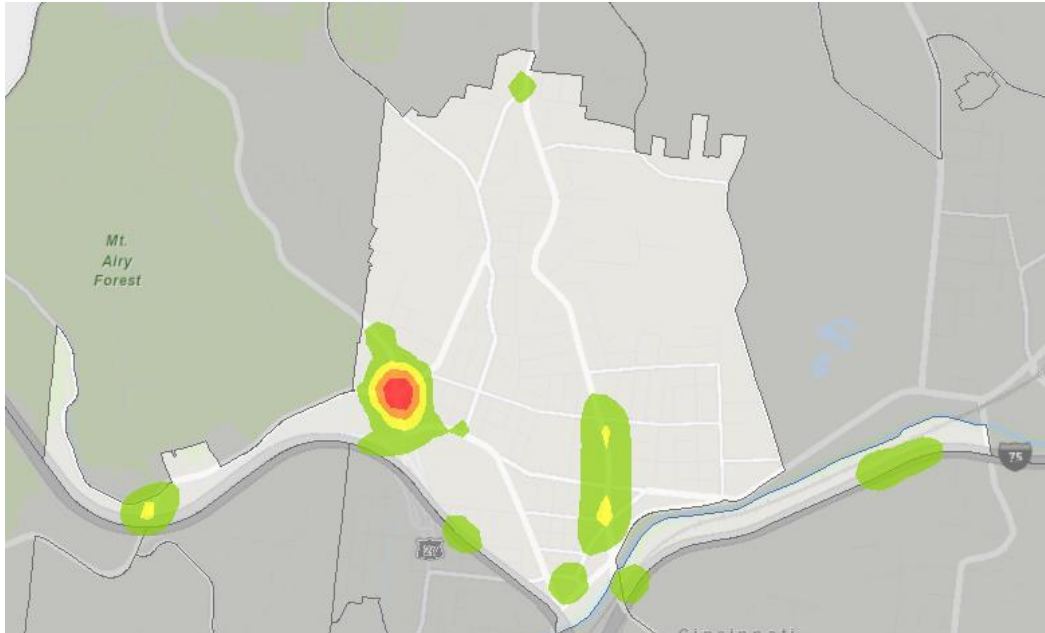


Northside Traffic Accidents

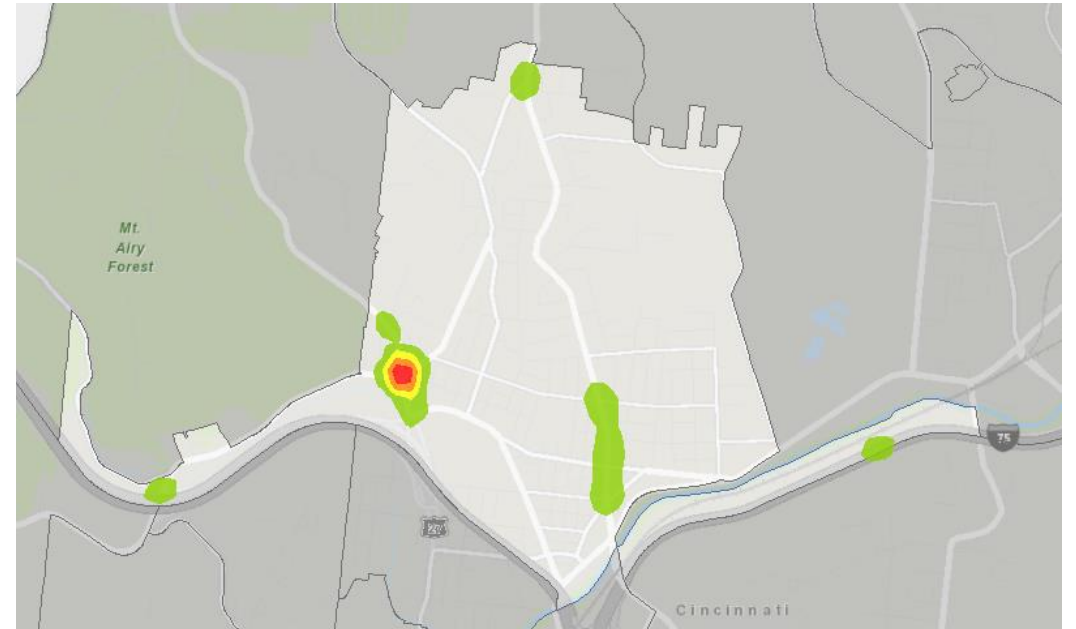
Comparison to Target
Locations



All Traffic Accidents



All Crashes: 2020 to Present



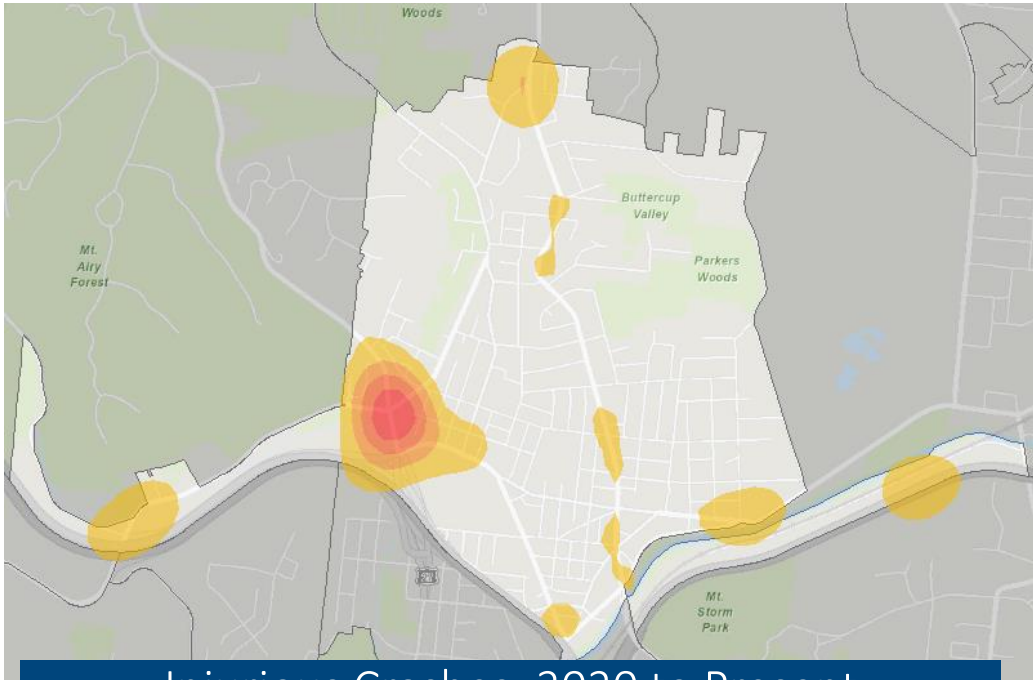
All Crashes: 2015 to Present

Total Crashes							
Location	2015	2016	2017	2018	2019	2020	2021
Northside Total	646	678	582	540	552	551	428
Colerain Total	133	152	72	66	90	85	67
	21%	22%	12%	12%	16%	15%	16%
Hamilton Total	107	111	110	88	74	75	63
	17%	16%	19%	16%	13%	14%	15%

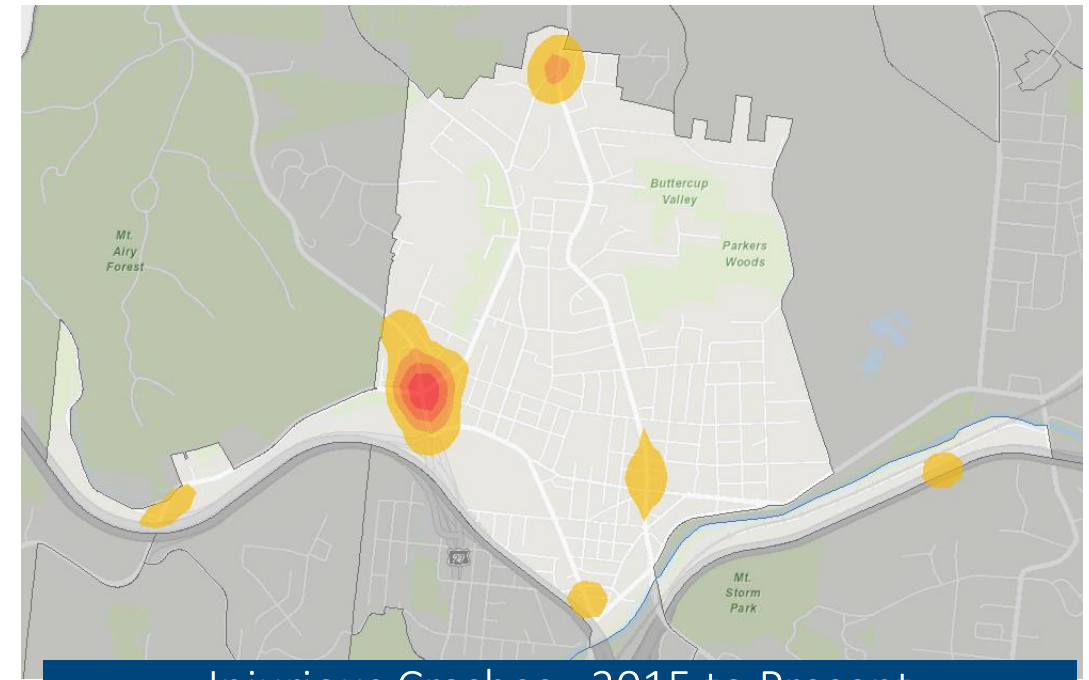
These counts are based on the actual percentages and have not been standardized to account for the difference in coverage area size between the two locations

- A current and historic overview of all traffic accidents in Northside shows Colerain Av/Virginia Av as having the highest density of activity
- On average, Colerain & Virginia Ave accounts for **17%** of Northside's traffic accidents
- On average, Hamilton Av, accounts for **16%** of Northside's traffic accidents

Injurious Traffic Accidents



Injurious Crashes: 2020 to Present



Injurious Crashes : 2015 to Present

Location	Injurious						
	2015	2016	2017	2018	2019	2020	2021
Northside Total	153	164	122	111	145	143	98
Colerain Total	42	35	21	13	30	27	19
	27%	21%	17%	12%	21%	19%	19%
Hamilton Total	20	18	26	12	11	11	15
	13%	11%	21%	11%	8%	8%	15%

These counts are based on the actual percentages and have not been standardized to account for the difference in coverage area size between the two locations

- A current and historic overview of all traffic accidents in Northside shows Colerain Av/Virginia Av as having the highest density of activity
- On average, Colerain/Virginia Ave accounts for **20%** of the total injurious crashes in Northside
- On average, Hamilton Ave accounts for **12%** of the total injurious crashes in Northside

Location Comparison

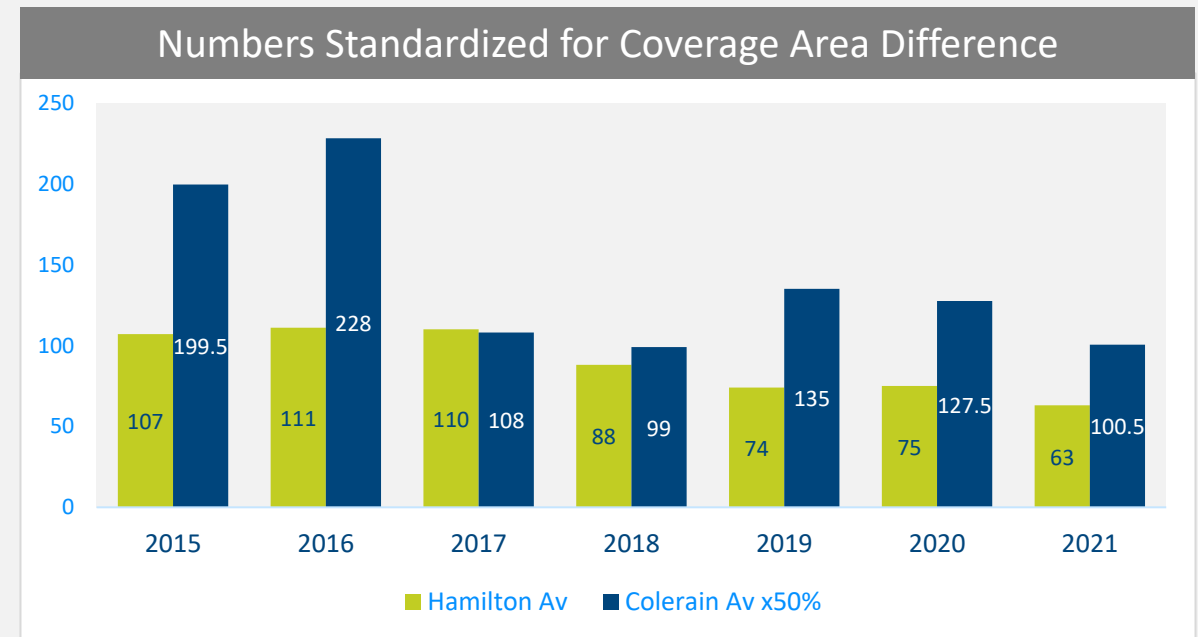
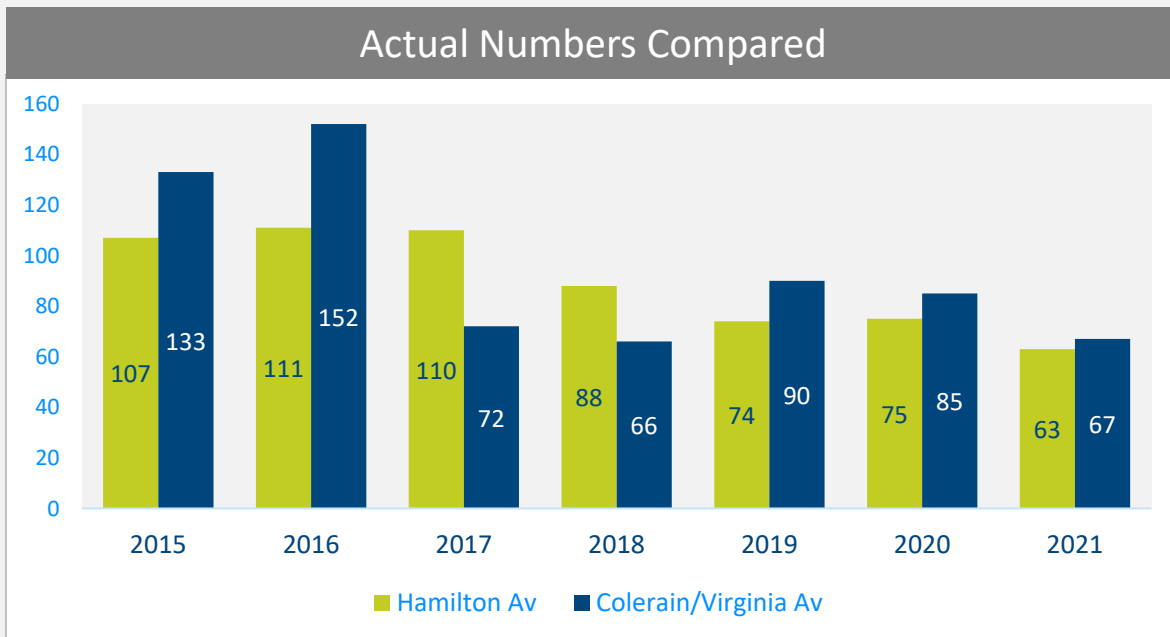
Actual Numbers and Standardized Comparison

End of Year Totals for All Traffic Accidents

Standardized and Non-Standardized Comparisons

- Before standardizing the numbers, Colerain Av/Virginia Av shows a **-1% difference** in the total number of traffic accidents compared to Hamilton Av
- When the numbers are standardized based on the coverage area size difference, Colerain Av/Virginia Av shows to have about **33% more** traffic accidents compared to Hamilton Av, on Average

Colerain/Virginia Compared to Hamilton Av	2015	2016	2017	2018	2019	2020	2021
Actual Percent Difference	20%	27%	-53%	-33%	18%	12%	6%
Standardized Percent Difference	46%	51%	-2%	11%	45%	41%	37%



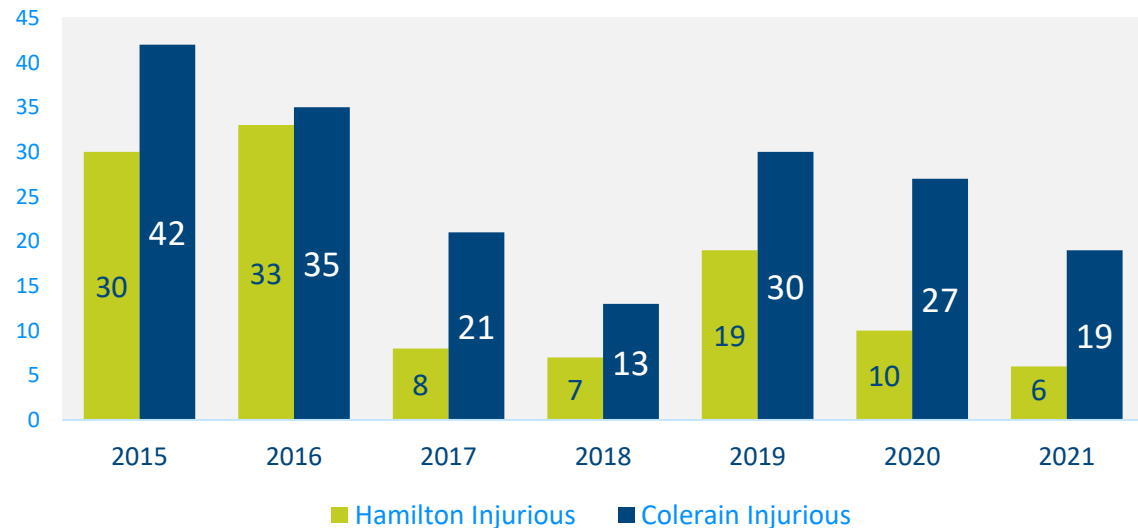
End of Year Totals for All Injurious Traffic Accidents

Standardized and Non-Standardized Comparisons

- Without standardizing the total numbers, Colerain/ Virginia Av shows to be **33%** higher in injurious traffic accidents than Hamilton Av
- When the numbers are standardized based on the coverage area size difference:
- Colerain Av/Virginia Av shows to have about **55%** more traffic accidents compared to Hamilton Av, on Average

Colerain/Virginia Compared to Hamilton Av	2015	2016	2017	2018	2019	2020	2021
Actual Percent Difference	52%	49%	-24%	8%	63%	59%	21%
Standardized Percent Difference	68%	66%	17%	38%	76%	73%	47%

Actual Numbers Compared



Numbers Standardized for Coverage Area Difference

