

VISION   
ZERO 

SAFER STREETS FOR ALEXANDRIA

Vision Zero in Alexandria, VA

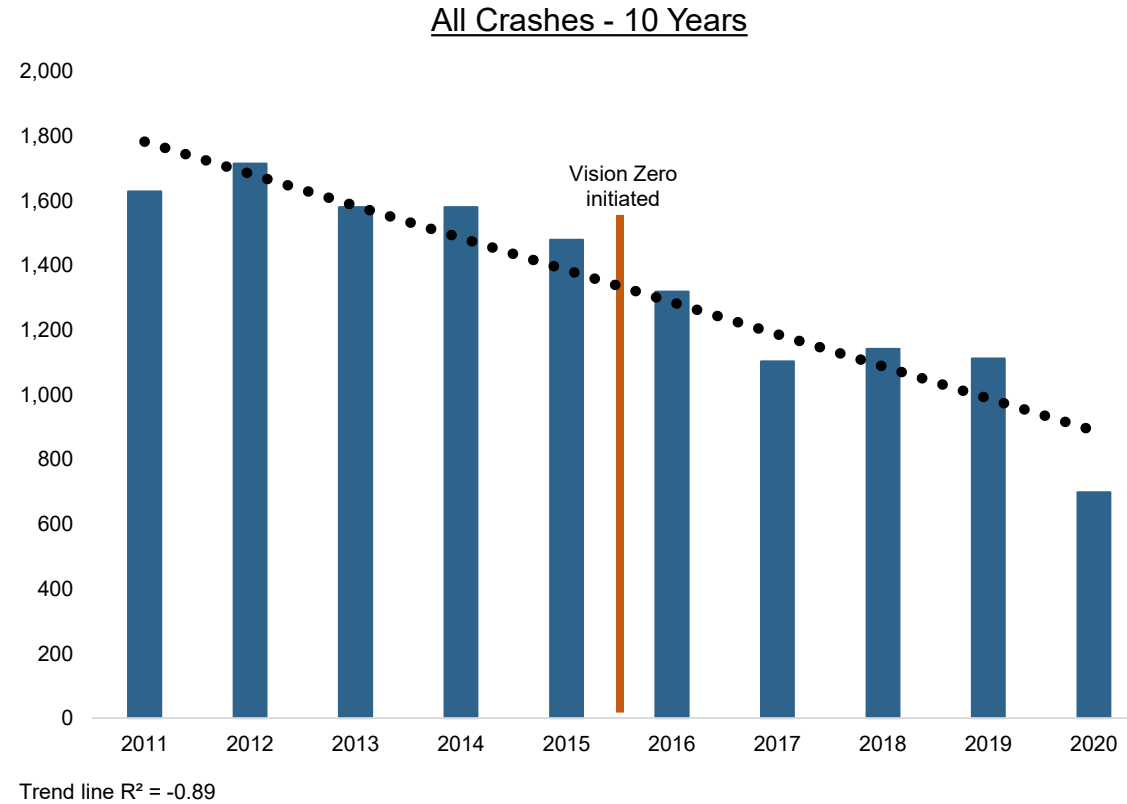


10-Year Crash Trends

CY2011-CY2020



There is a downward trend for all crashes over the last ten years.

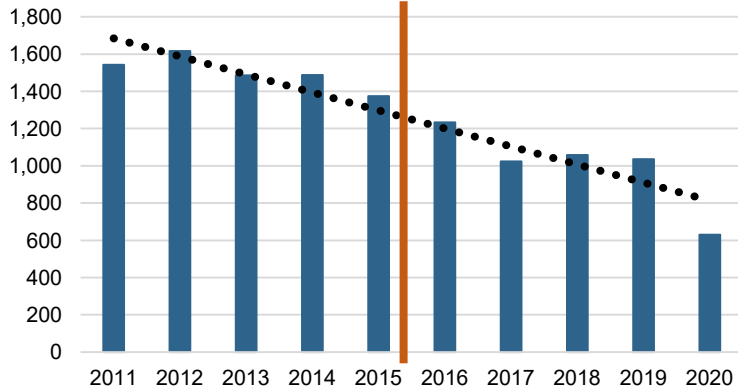


The strength of the trend is expressed through the R^2 value. The closer the R^2 value is to 1 or -1 the stronger the trend. Positive R^2 values indicate an upward trend, negative R^2 values indicate a downward trend, and zero indicates a flat trend.



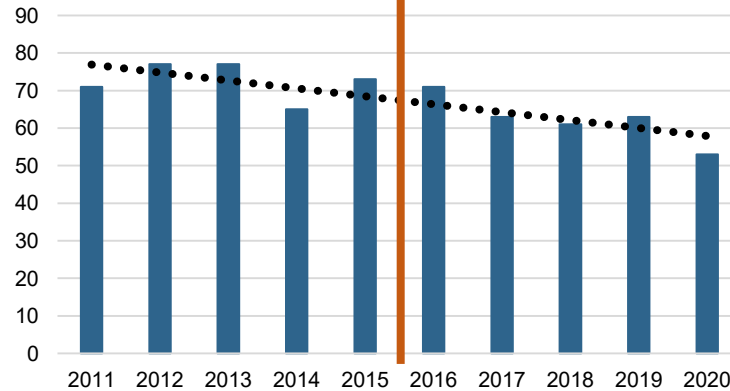
The downward trend for all crashes is seen across all modes over the last ten years.

Vehicle Only - 10 Years



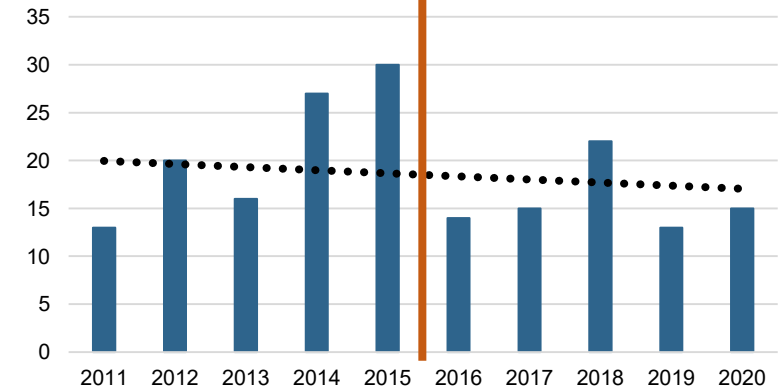
Trend line $R^2 = -0.89$

Pedestrian Crashes - 10 Years



Trend line $R^2 = -0.69$

Bicyclist Crashes - 10 Years



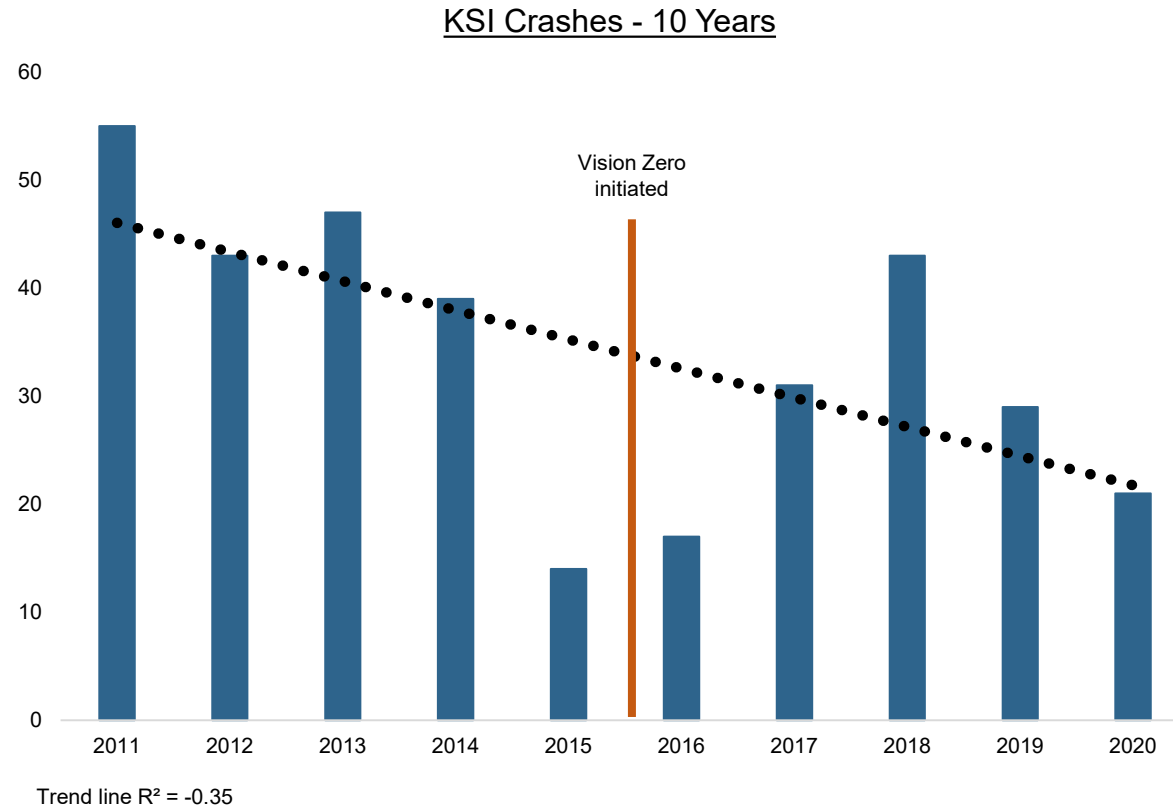
Trend line $R^2 = -0.03$

Vision Zero
initiated at
Alexandria
2016



The strength of the trend is expressed through the R^2 value. The closer the R^2 value is to 1 or -1 the stronger the trend. Positive R^2 values indicate an upward trend, negative R^2 values indicate a downward trend, and zero indicates a flat trend.

There is a downward trend for KSI crashes over the last ten years.

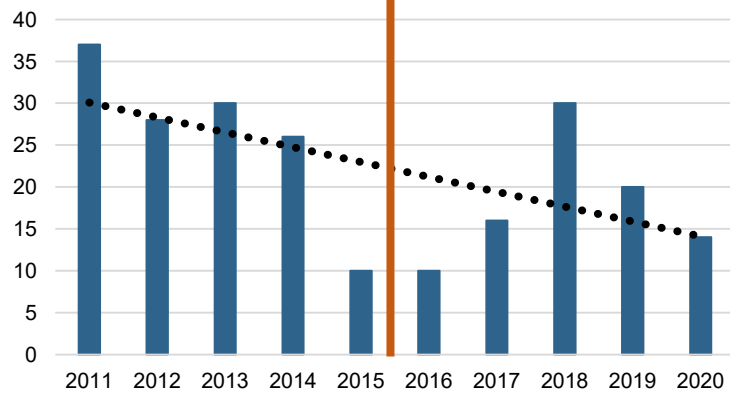


The strength of the trend is expressed through the R^2 value. The closer the R^2 value is to 1 or -1 the stronger the trend. Positive R^2 values indicate an upward trend, negative R^2 values indicate a downward trend, and zero indicates a flat trend.



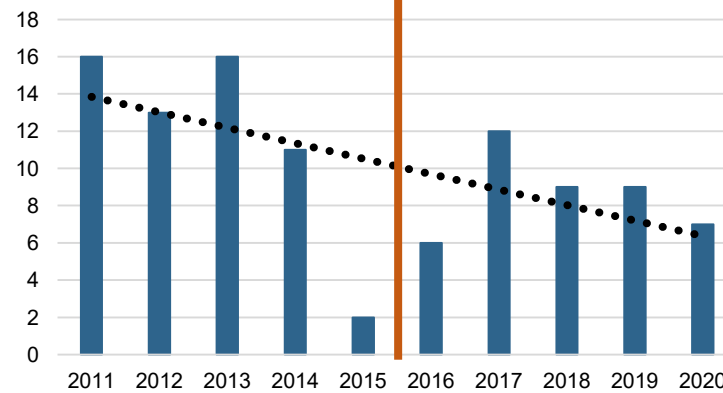
The downward trend for KSI crashes is seen across all modes over the last ten years.

Vehicle Only KSI Crashes - 10 Years



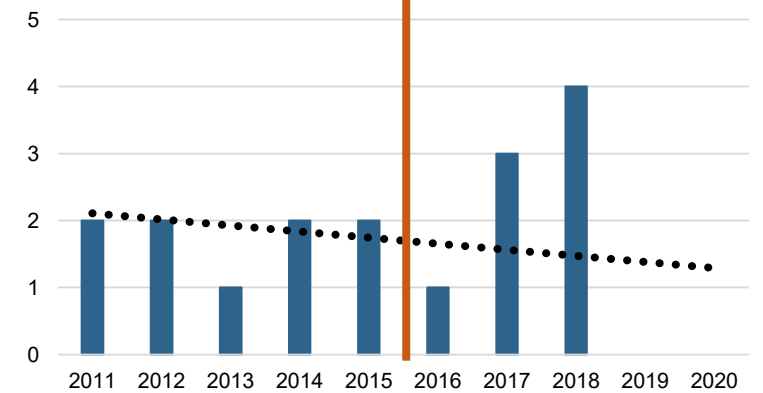
Trend line $R^2 = -0.33$

Pedestrian KSI Crashes - 10 Years



Trend line $R^2 = -0.32$

Bicyclist KSI Crashes - 10 Years



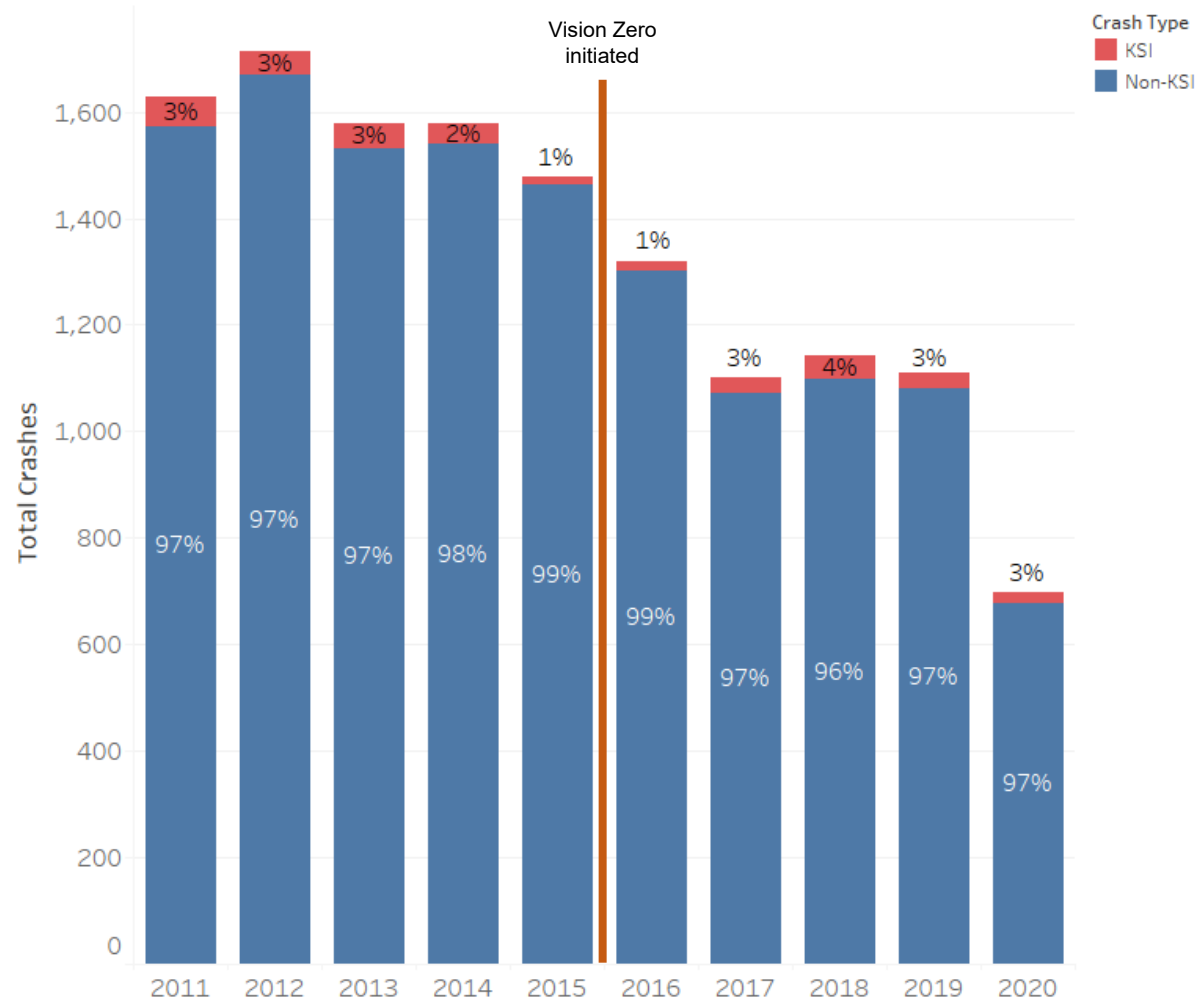
Trend line $R^2 = -0.05$

Vision Zero
initiated at
Alexandria
2016

The strength of the trend is expressed through the R^2 value. The closer the R^2 value is to 1 or -1 the stronger the trend. Positive R^2 values indicate an upward trend, negative R^2 values indicate a downward trend, and zero indicates a flat trend.



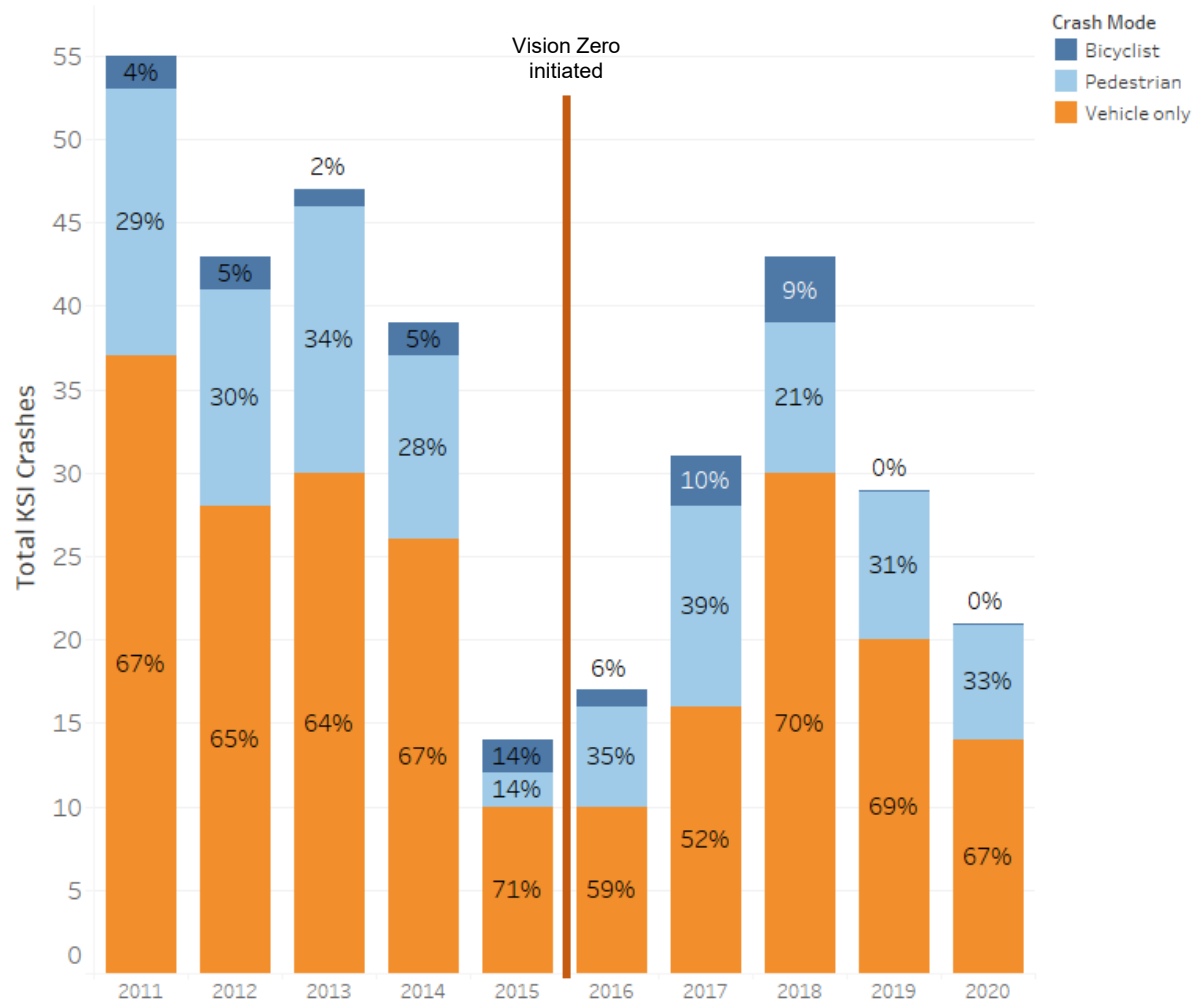
The average annual proportion of KSI crashes for the last ten years is about 3%.



Vision Zero initiated at Alexandria 2016



Over the last ten years, vehicle-only crashes have had the highest annual totals of KSI crashes followed by pedestrians and then bicyclist crashes.

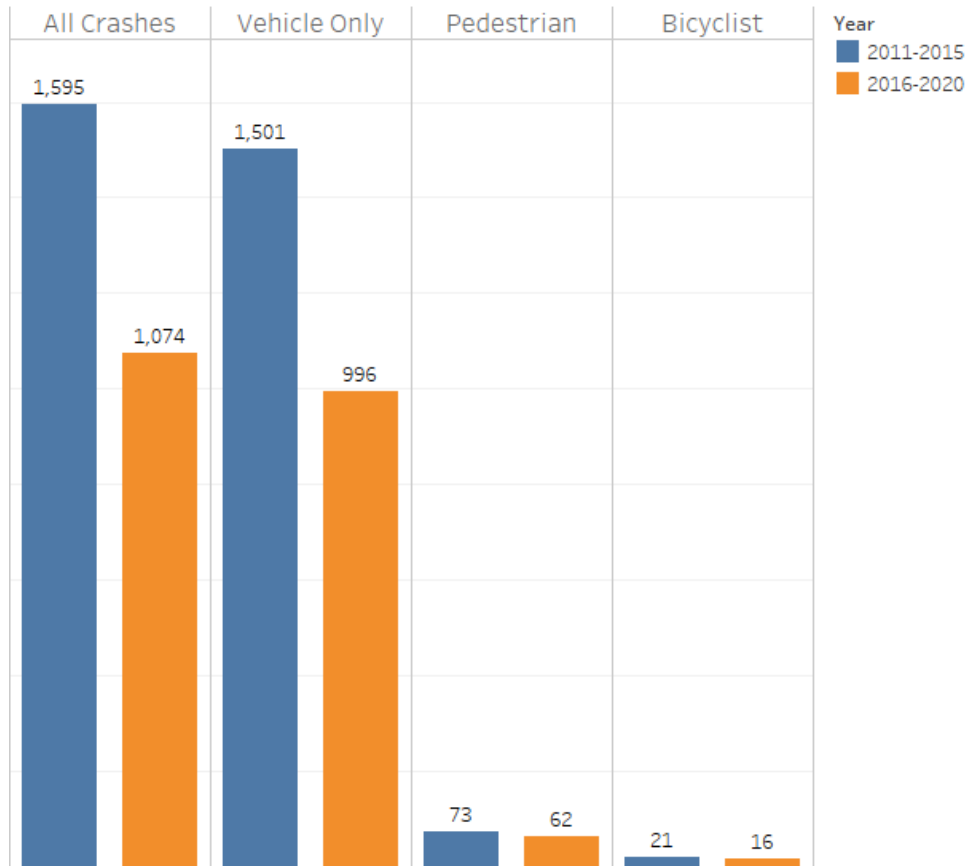


Vision Zero initiated at Alexandria 2016

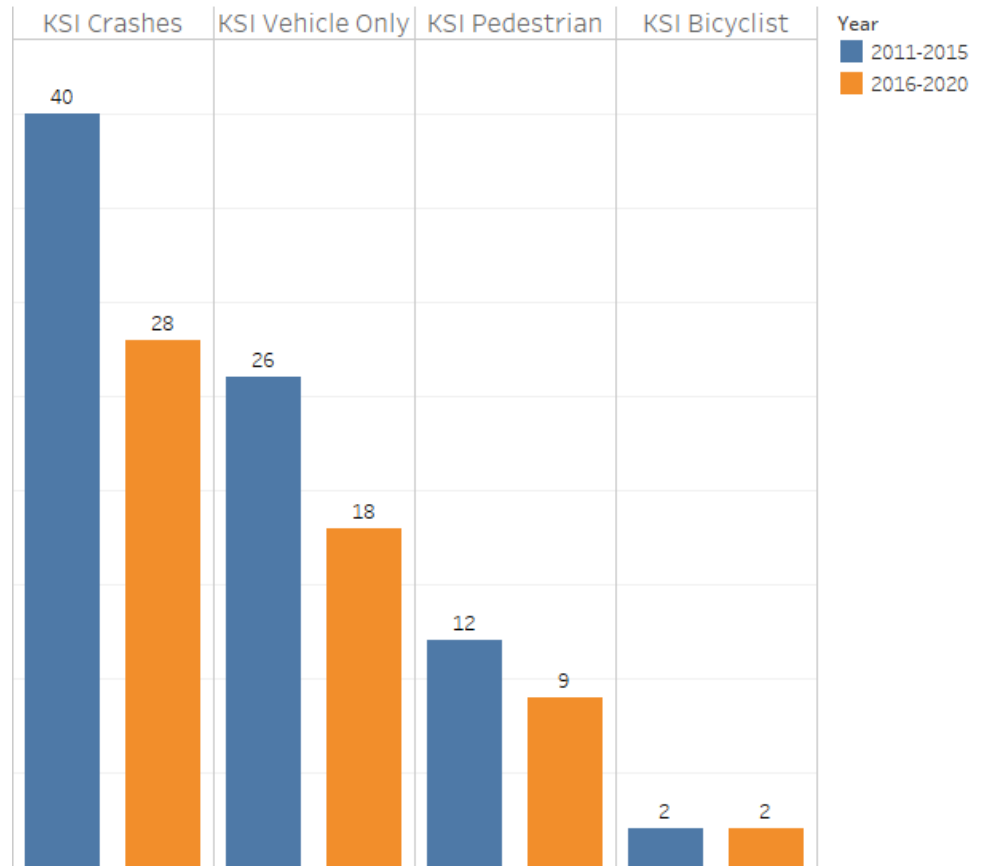


The annual crash averages by all modes and crash types for 2016-2020 are less than those during 2011-2015. Vehicle only crashes (all and KSI) saw the biggest drop in averages.

Annual Crash Averages

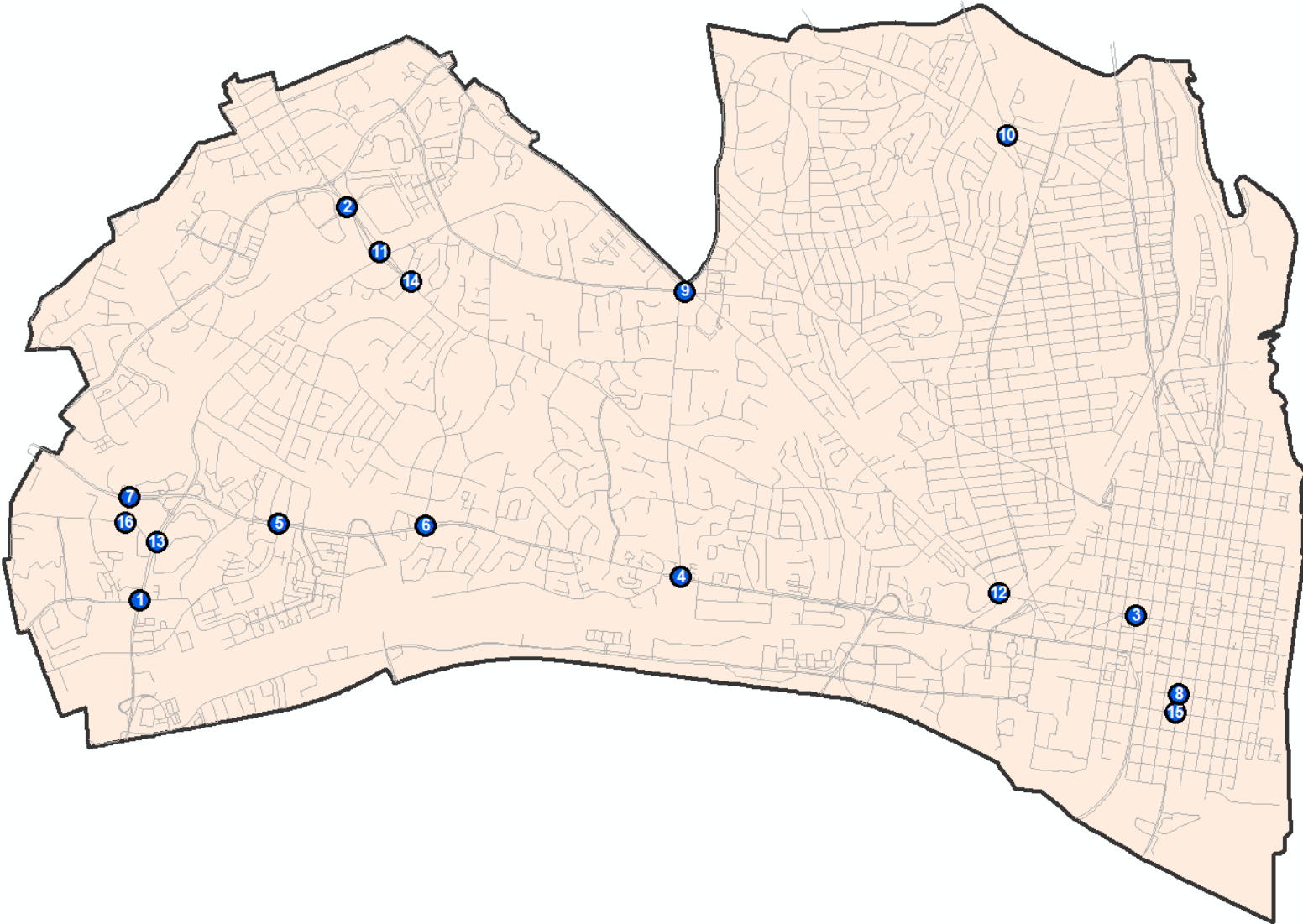


Annual KSI Crash Averages



High Priority Crash Locations CY2011-20

Location ID	Location Name	KSI Crashes	Injury Crashes	Grand Total	Priority Score#	Rank*
1	Edsall Road & S Van Dorn Street	4	21	25	40	1
2	Seminary Road & Mark Center	2	26	28	35	2
3	King Street & N Henry Street	2	20	22	35	2
4	Duke Street & N Quaker Lane	7	15	22	31	3
5	Duke Street & S Pickett Street	1	21	22	30	4
6	Duke Street & N/S Jordan Street	2	16	18	29	5
7	Duke Street & S Walker Street	1	26	27	28	6
8	S Washington & Wilkes Street	2	15	17	28	6
9	King Street & N Quaker Lane & W Braddock Road	3	17	20	26	7
10	Mount Vernon Avenue & W Glebe Road	2	13	15	25	8
11	Seminary Road & 395	1	22	23	25	8
12	Russell Road & Callahan Drive	5	7	12	24	9
13	Stevenson Avenue & S Van Dorn Street	2	13	15	23	10
14	Seminary Rd & Library Lane	3	12	15	23	10
15	S Washington & Gibbon Street	2	14	16	23	10
16	Stevenson Avenue & S Walker Street	0	16	16	23	10



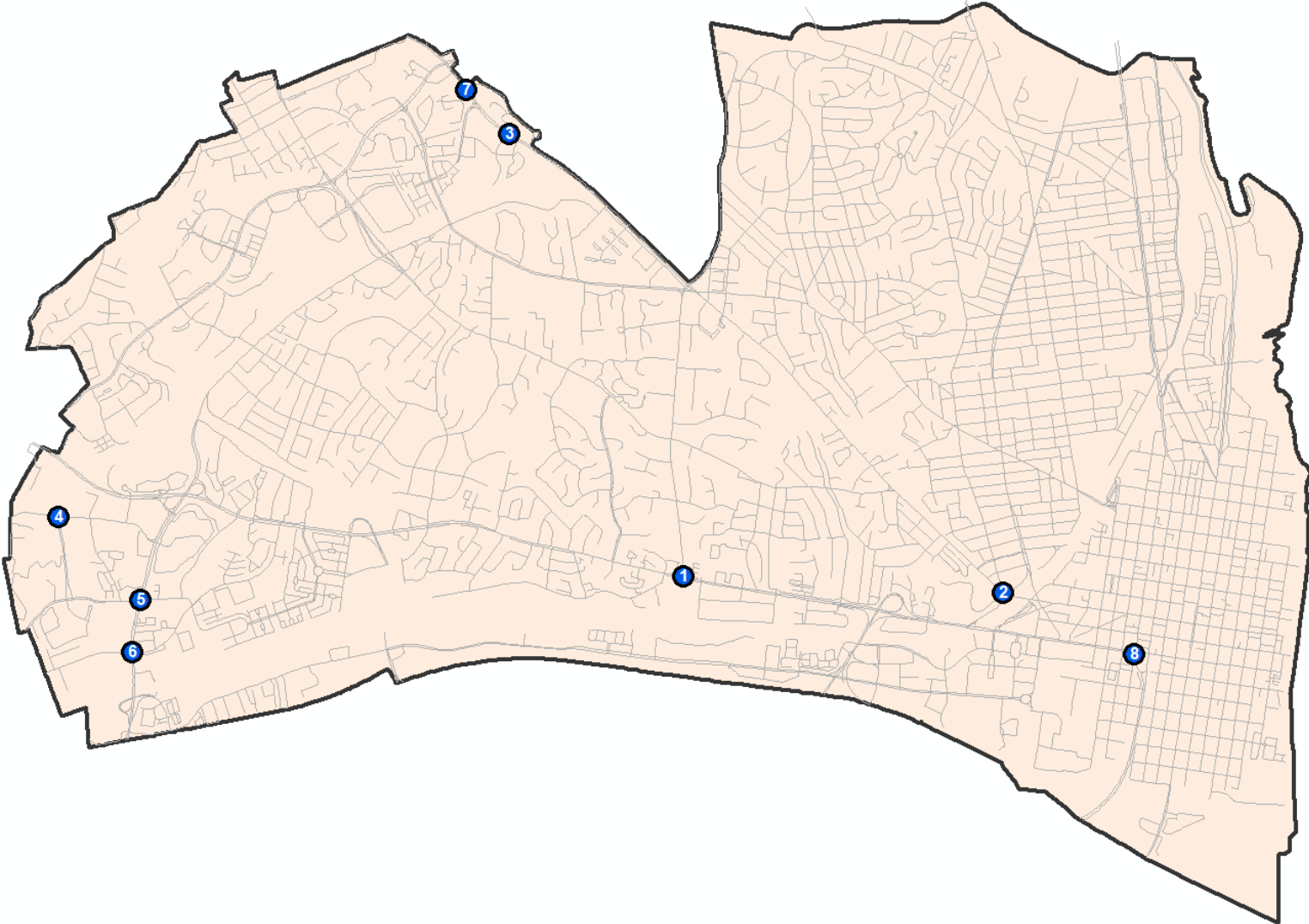
*These locations are in the 99th percentile (Top 1%) of the priority score by location. # Priority score is calculated as follows: vehicle injury crashes are given a multiplier of 1, a multiplier of 2 is used for vehicle KSI crashes and bicyclist and pedestrian injury crashes, and a multiplier of 4 is used for pedestrian and bicyclist KSI crashes.



Locations with the Most KSI Crashes CY2011-20

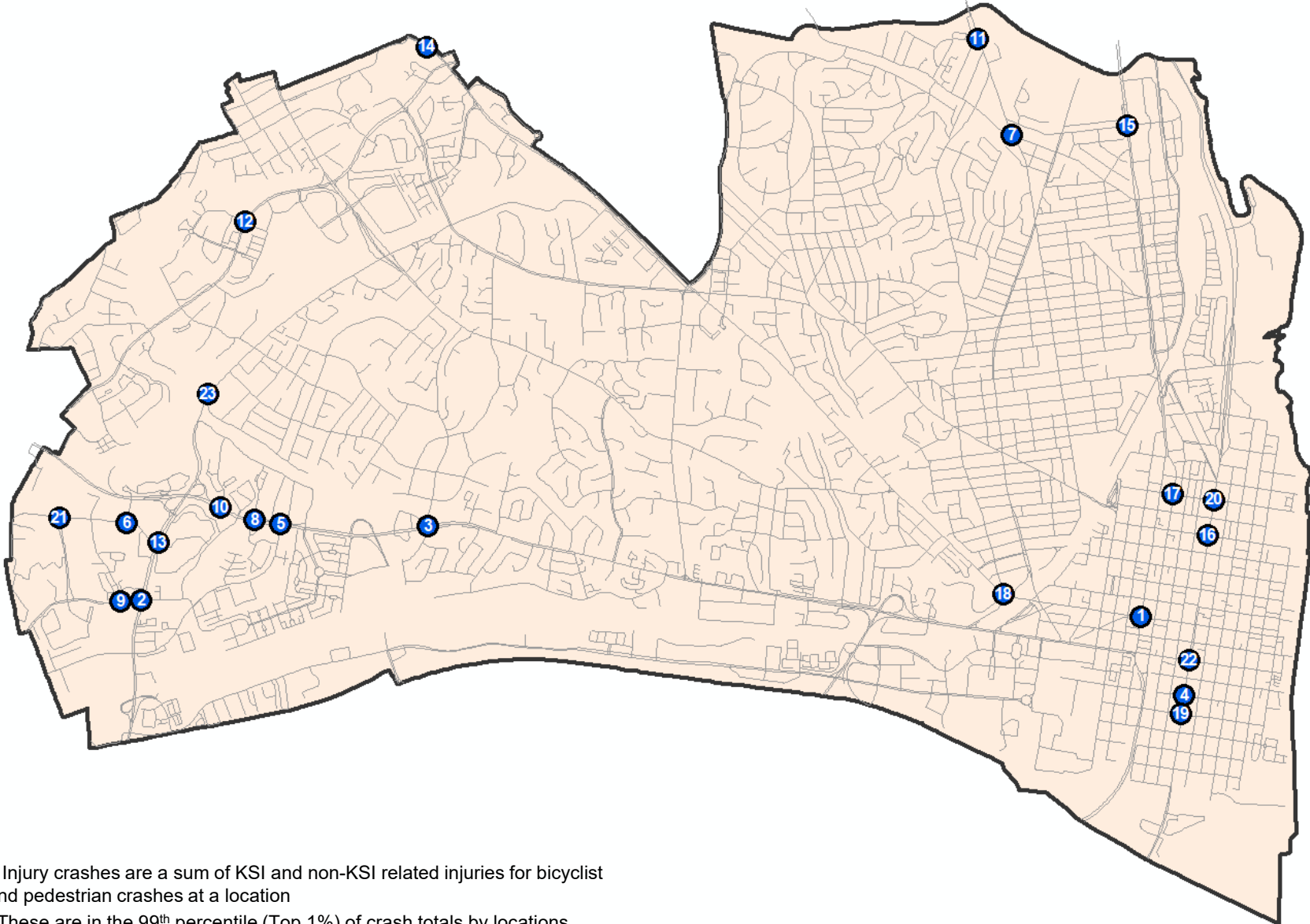
Location ID	Location Name	Vehicle	Bicyclist	Pedestrian	Total KSI Crashes	Rank*
1	Duke Street & N Quaker Lane	6	0	1	7	1
2	Russell Rd & Callahan Dr	3	1	1	5	2
3	King Street & Park Center Drive	4	0	1	5	2
4	Stevenson Avenue & Yoakum Parkway	1	1	3	5	2
5	Edsall Road & S Van Dorn Street	2	0	2	4	3
6	S Pickett St & S Van Dorn Street	3	0	1	4	3
7	King Street & S 28th Street	2	0	2	4	3
8	S Henry Street & Duke Street	3	0	1	4	3

* These are in the 99th percentile (Top 1%) of KSI crash totals by locations



Locations with High Pedestrian and Bicyclist Injuries CY2011-20

Location ID	Location Name	Injury Crashes #	Rank*
1	King Street & N Henry Street	10	1
2	Edsall Road & S Van Dorn Street	9	2
3	Duke Street & N/S Jordan Street	8	3
4	S Washington & Wilkes Street	7	4
5	Duke Street & S Pickett Street	7	4
6	Stevenson Avenue & S Walker St	7	4
7	Mount Vernon Ave & W Glebe Rd	6	5
8	Duke Street & N Paxton Street	6	5
9	Edsall Road & S Whiting Street	6	5
10	Duke Street & N Ripley Street	6	5
11	Mount Vernon Avenue & Four Mile Road	5	6
12	N Beauregard St & Rayburn Ave	5	6
13	Stevenson Ave & S Van Dorn St	5	6
14	King Street & Chesterfield Road	5	6
15	E Reed Ave & Richmond Ave	5	6
16	N Beauregard St & Sanger Ave	5	6
17	Madison St and N Patrick St	5	6
18	King St & Russell Rd & Callahan	5	6
19	Gibbon St & S Washington St	5	6
20	Madison St & N Washington St	5	6
21	Stevenson Avenue & Yoakum Parkway	5	6
22	Duke St & S Washington St	5	6
23	N Van Dorn St & Holmes Run Parkway	5	6

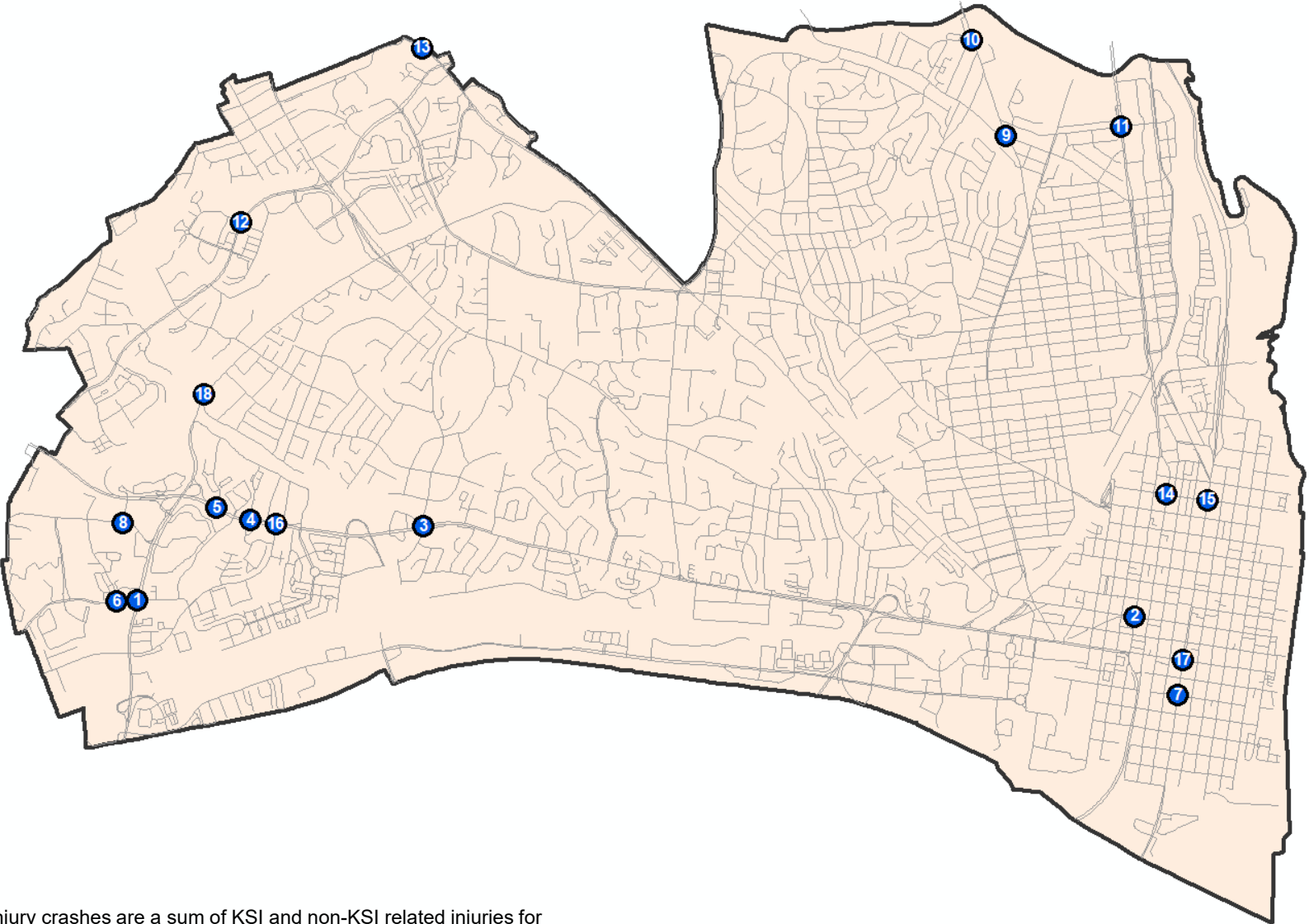


Injury crashes are a sum of KSI and non-KSI related injuries for bicyclist and pedestrian crashes at a location
 * These are in the 99th percentile (Top 1%) of crash totals by locations



Locations with High Pedestrian Injuries CY2011-20

Location ID	Location Name	Injury Crashes #	Rank*
1	Edsall Road & S Van Dorn St	8	1
2	King Street & N Henry Street	8	1
3	Duke Street & N/S Jordan St	7	2
4	Duke Street & N Paxton Street	6	3
5	Duke Street & N Ripley Street	6	3
6	Edsall Road & S Whiting St	6	3
7	S Washington & Wilkes Street	6	3
8	Stevenson Ave & S Walker St	6	3
9	Mount Vernon Avenue & W Glebe Road	5	4
10	Mount Vernon Avenue & Four Mile Road	5	4
11	E Reed Avenue & Richmond Highway	5	4
12	N Beauregard St & Rayburn Avenue	5	4
13	King Street & Chesterfield Road	5	4
14	N Patrick Street & Madison Street	5	4
15	Madison Street & N Washington Street	5	4
16	Duke Street & S Pickett Street	5	4
17	Duke Street & Washington Street	5	4
18	N Van Dorn Street & Holmes Run Parkway	5	4



Injury crashes are a sum of KSI and non-KSI related injuries for pedestrian crashes at a location
 * These are in the 99th percentile (Top 1%) of crash totals by locations

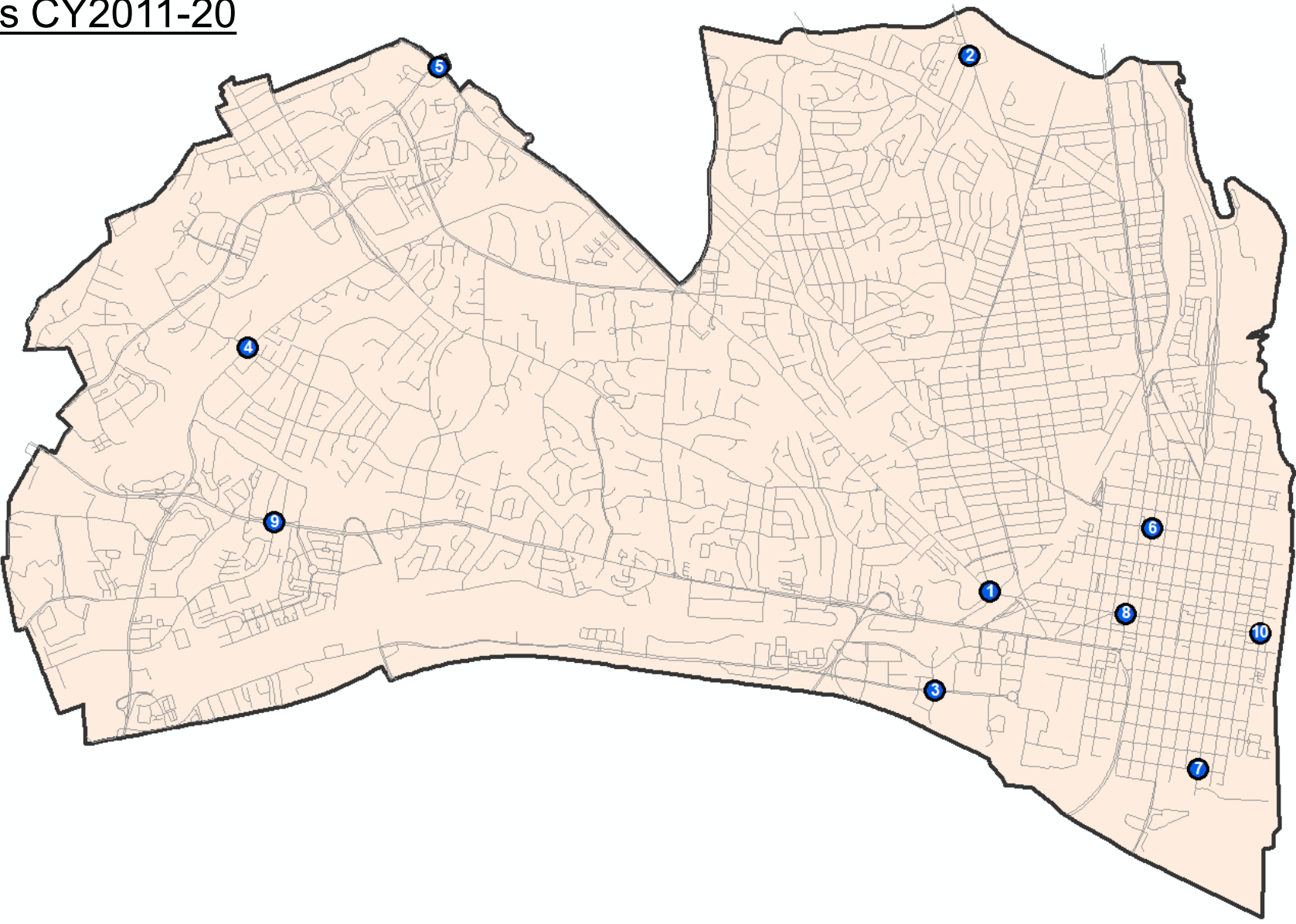


Locations with High Bicyclist Injuries CY2011-20

Location ID	Location Name	Injury Crashes #	Rank*
1	Russell Road & Callahan Dr	3	1
2	Mount Vernon Ave & Executive Ave	2	2
3	Mill Road & Eisenhower Ave	2	2
4	Sanger Ave & Mount Vernon Ave	2	2
5	King St & S Walter Reed & N Beauregard	2	2
6	Pendleton St & N Patrick St	2	2
7	Green Street & S Royal Street	2	2
8	King Street & N Henry Street	2	2
9	Duke Street & S Pickett Street	2	2
10	King St & Union St	2	2

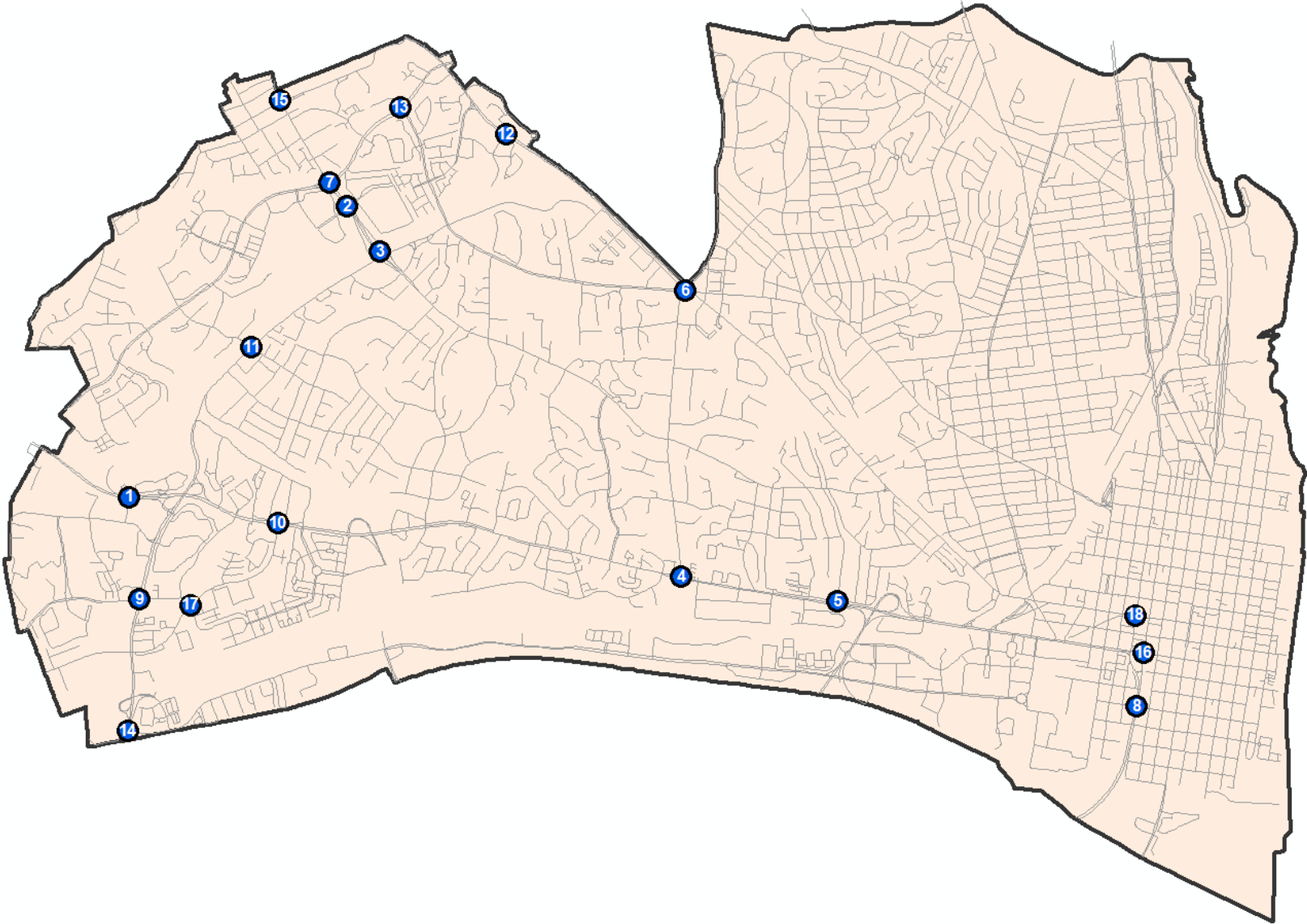
Injury crashes are a sum of KSI and non-KSI related injuries for bicyclist crashes at a location

* These are in the 99.5th percentile (Top 0.5%) of crash totals by locations



Locations with High Vehicle Only Injuries CY2011-20

Location ID	Location Name	Injury Crashes #	Rank*
1	Duke Street & S Walker St	27	1
2	Seminary Road & Mark Center	25	2
3	Seminary Road & 395	22	3
4	Duke Street & N Quaker La	21	4
5	Duke Street & W Taylor Run Parkway	19	5
6	King Street & N Quaker Lane & W Braddock Road	18	6
7	Seminary Road & N Beauregard Street	17	7
8	S Patrick Street & Gibbon St	16	8
9	Edsall Road & S Van Dorn St	16	8
10	Duke Street & S Pickett St	15	9
11	N Van Dorn St & Richenbacher Ave & Sanger Av	14	10
12	King Street & Park Center Dr	14	10
13	N Beauregard Street & W Braddock Road	13	11
14	Eisenhower Avenue & S Van Dorn Street	12	12
15	Seminary Rd & Dawes Ave	12	12
16	Duke Street & S Patrick St	12	12
17	Edsall Rd & S Pickett St & Cameron Station Blvd	12	12
18	King Street & N Henry Street	12	12



*These are in the 99th percentile (Top 1%) of injury crashes by location, # Injury crashes are a sum of KSI and non-KSI related injuries for vehicle only crashes at a location

