

TECHNICAL MEMORANDUM

TRAFFIC CRASHES AND SAFETY PERFORMANCE MEASURES 2017-2019

December 2020

Akron Metropolitan Area Transportation Study
161 S. High St./Akron, Ohio 44308-1423
Phone: (330) 375-2436
FAX: (330) 375-2275

This report was prepared by the Akron Metropolitan Area Transportation Study (AMATS) in cooperation with the U.S. Department of Transportation, the Ohio Department of Transportation, and the Village, City and County governments of Portage and Summit Counties and Chippewa and Milton Township in Wayne County. The contents of this report reflect the views of AMATS, which is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official view and policies of the Ohio and/or U.S. Department of Transportation. This report does not constitute a standard, specification or regulation.

Table of Contents

Section 1: All Crashes

Overview	1
Trends	1
Methodology	3
High Crash Sections	3
Table 1: High Crash Roadway Sections	4
Map 1: Top 50 High Crash Sections 2017-2019	8
High Crash Intersections	9
High Crash Freeway Locations	9
Table 2: High Crash Intersections	10
Map 2: Top 50 High Crash Intersections 2017-2019	18

Section 2: Bicycle and Pedestrian Crashes

Overview	19
Bicycle-Related Crashes	19
Map 3: Bicycle Crashes in the AMATS Area 2017-2019	21
Pedestrian-Related Crashes	22
Map 4: Pedestrian Crashes in the AMATS Area 2017-2019	23

Section 3: Safety Performance Measures and Targets.....25

Appendix A: Crash Formulas

Traffic Crashes 2017 – 2019

Section 1: All Crashes

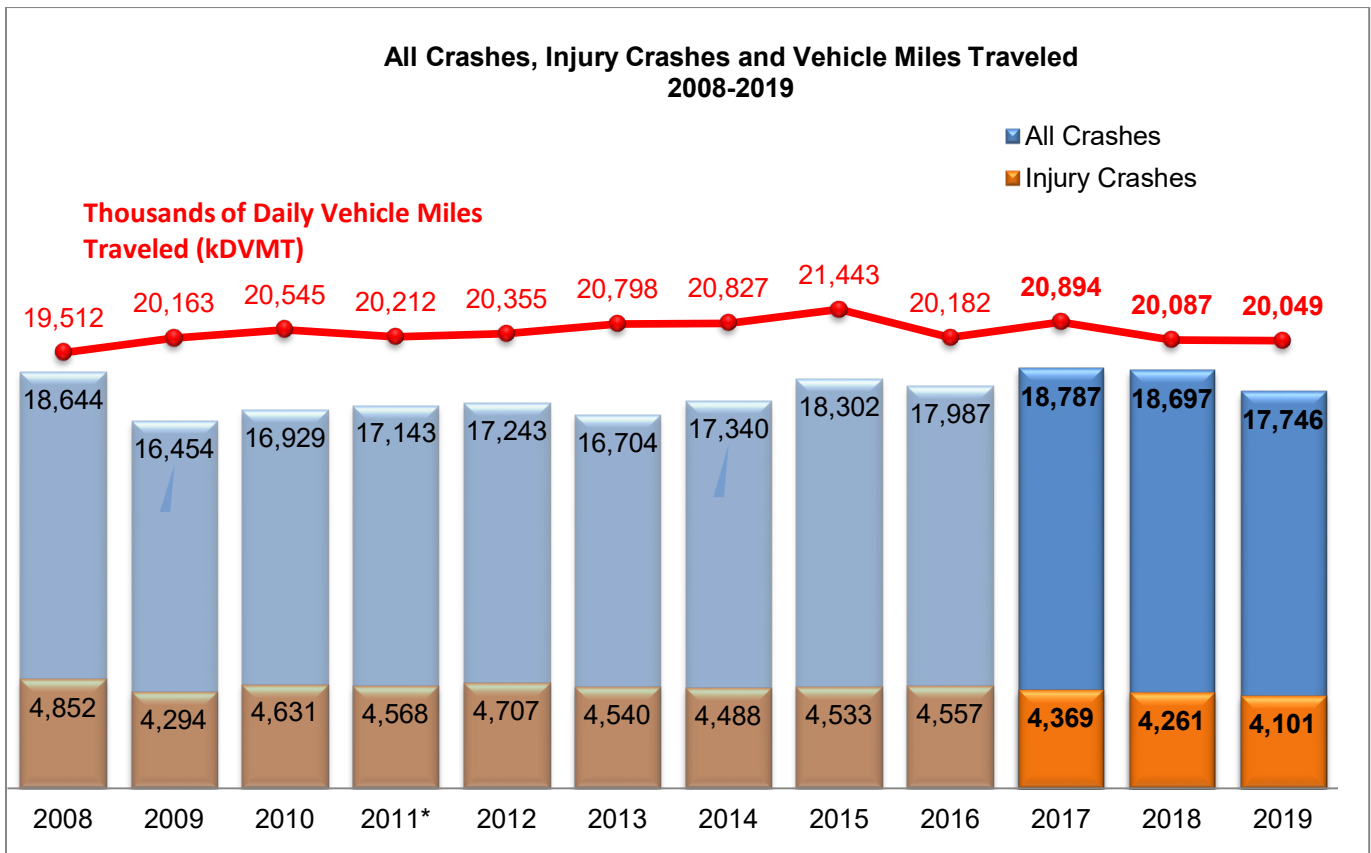
Overview

The 2017-2019 Crash Report was prepared by reviewing 55,230 crash records obtained from the Ohio Department of Transportation (ODOT). Animal crashes and construction zone crashes were removed and not included in the analysis since they do not relate to the characteristics of the roadway. The data is then imported into GIS and plotted. It is carefully checked for location accuracy and then categorized as section or intersection crashes. In Section 1 of this report the roadway section and intersection locations are further analyzed and then ranked. In Section 2 Bicycle and Pedestrian-Related Crashes are discussed. Section 3 highlights Safety Performance Measures and Targets. Freeway crashes are not included in this report and instead are analyzed and ranked by the Ohio Department of Transportation.

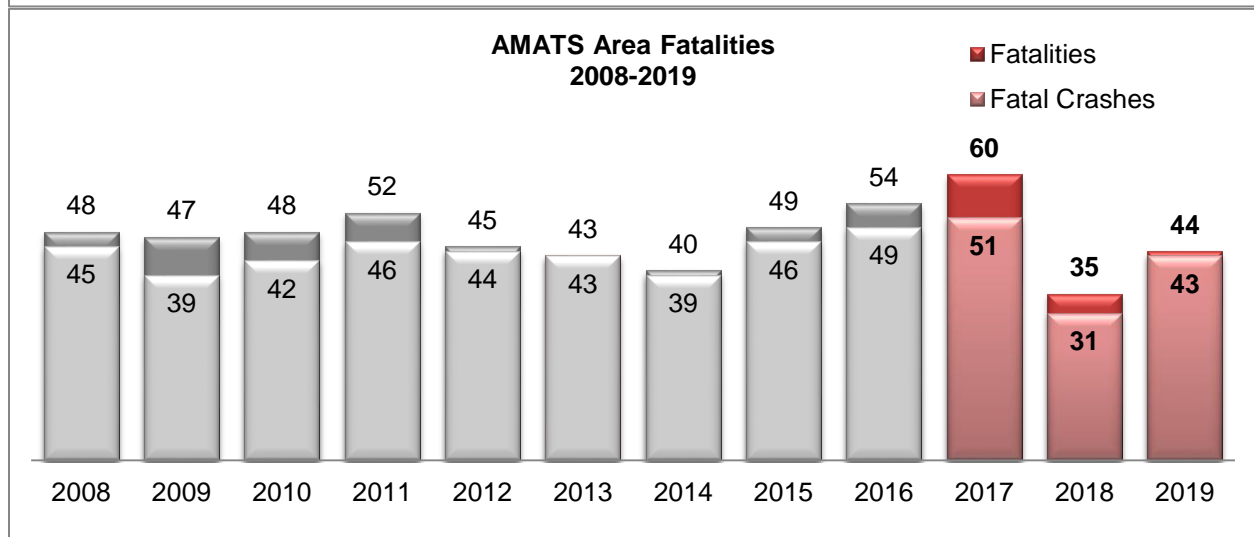
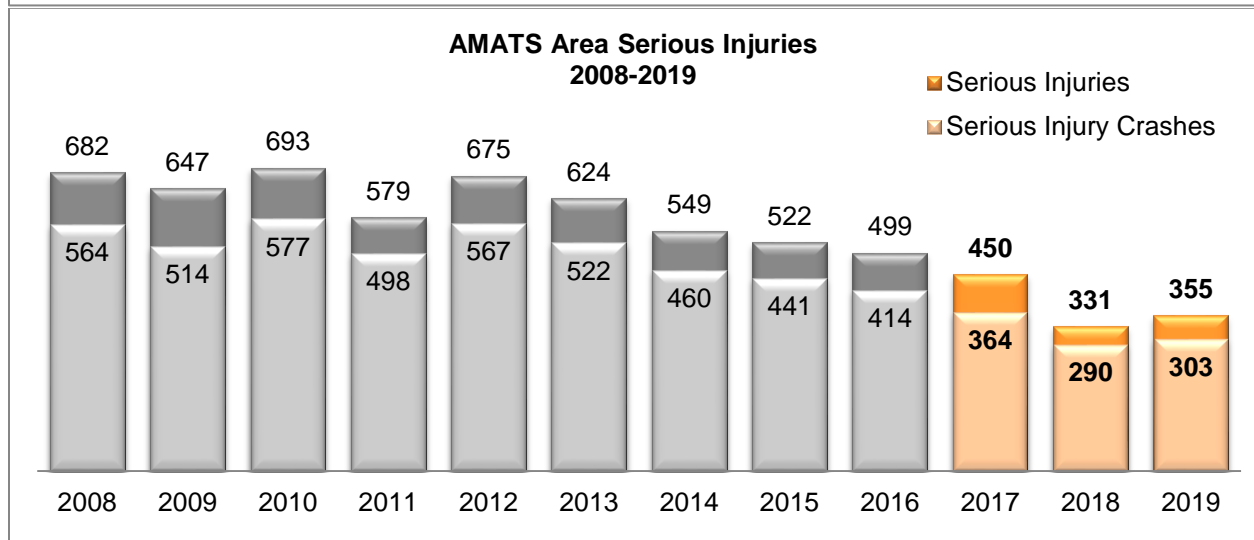
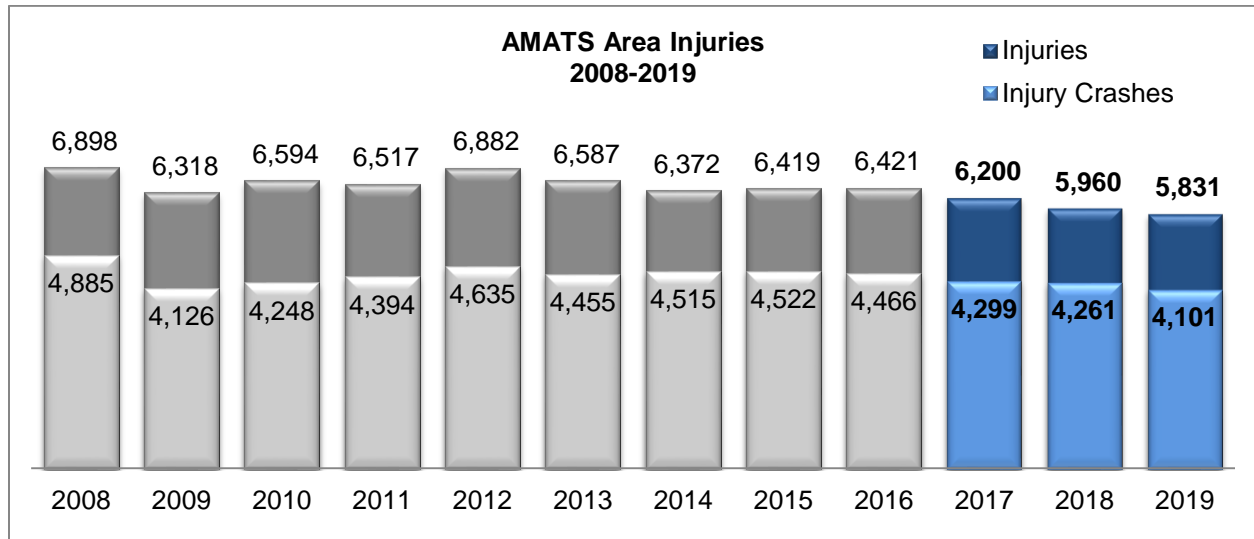
Trends

In 2019, the overall number of crashes in the AMATS area decreased by 951. This is a 5% decrease from 2018. Injury crashes decreased by 160 (4%) but fatal crashes increased by 12 (39%).

The following graph shows the number of total crashes in the AMATS area between 2008 and 2019. The red line at the top shows thousands of daily vehicle miles traveled (kDVMT) in the AMATS area. This data was obtained from the ODOT Office of Technical Services. In 2019 kDVMT decreased by 1.9% from 2018.



The following graphs show the number of injury, serious injury and fatal crashes as well as the resulting injuries, serious injuries and fatalities between 2008 and 2019. A crash is one event but it may involve multiple vehicles and result in multiple injuries or fatalities.



Methodology

The 2017-2019 Crash Report used Geographical Information System (GIS) coordinates to plot crashes. Sometimes the coordinates are not correct and crashes have to be manually moved to their proper location based on the description on the police report. This is time consuming but necessary for an accurate report.

Another challenge is determining if a crash should be considered section or intersection related. Not all crashes that occur near an intersection are classified as intersection related. An example would be a single vehicle departing the roadway and hitting a tree at a location that just happens to be near an intersection. If the intersecting street is used as a reference the crash appears to be intersection related when in reality it wasn't. Most of the time the police officer's crash report must be reviewed to gain a better understanding of these types of crashes. The final decision is based on the location of the vehicles and the nature of the crash.

Once crashes are properly identified as intersection or section related, the crash is assigned a unique identification number for sorting of the crashes. The final step in GIS is to sum up all the crashes that occur within each unique intersection or section.

Once the analysis in GIS was done, a list of high crash sections and intersections is produced.

- The high crash criterion for roadway sections is 10 or more crashes per mile per year.
- The high crash criterion for intersections is 10 or more crashes in the three-year period.

Once this initial group of high crash locations is identified based on number of crashes a crash rate is calculated. The crash rate takes into account the average daily traffic volume. For example, ten crashes per year at a location that averages 1,000 vehicles per day has a worse crash rate than ten crashes per year at a location that averages 30,000 vehicles per day. The formulas for crashes per mile and crash rate are given in Appendix A.

- A minimum crash rate of 1.0 is required for both roadway sections and intersections to be included in the list of high crash locations.

Next, the severity index is calculated for locations that meet the minimum number of crashes and crash rate. The severity index is a ratio of how many fatal and injury crashes occur compared to total crashes. This measure is useful when determining which locations should have priority in order to not only reduce crashes but to also reduce fatalities and injuries. The formula for severity index is given in the Appendix A.

Finally, a composite score is calculated based on how a location ranks according to number of crashes, crash rate and severity index. The formula for composite score is given in Appendix A. This score defines the final rank of the location.

High Crash Sections

A "section" is defined as a length of roadway between two logical termini such as intersections with other roadways. The length of a section is usually shorter in urban areas and could be miles long in a rural area. All roads in the AMATS area were considered, including those that are not federally classified.

- AMATS identified 181 high crash roadway sections that have 10 or more crashes per mile per year and a crash rate of one or more over the three year period.
- Table 1 lists the 181 high crash roadway sections ranked by composite score. This table also notes if any crashes were bicycle or pedestrian-related. Map 1 shows the top 50 high crash roadway sections.

Table 1
HIGH CRASH ROADWAY SECTIONS
RANKED BY COMPOSITE SCORE
2017-2019

Rank	Roadway Section	From	To	Length (miles)	Average Daily Traffic	Total Crashes	Crashes per mile per year	Crash Rate	Severity Index	Bike Related	Ped Related	Location
1	Medina Rd (SR 18)	I-77	Cleveland-Massillon Rd (CR 17)	0.70	30,889	138	66	5.83	1.62	0	1	Summit Co-Copley Twp
2	SR 44	Tallmadge Rd (CR 18)	SR 5 (NB off from I-76)	0.63	12,347	51	27	5.99	1.75	0	0	Portage Co-Rootstown Twp
3	W Market St (SR 18)	Cleveland-Massillon Rd	Smith Rd	0.57	24,530	102	60	6.66	1.49	0	2	Fairlawn
4	W and E Main St (SR 59)	Sycamore St	Prospect St	0.26	14,100	35	45	8.72	1.46	0	1	Ravenna
5	SR 14	SR 303 (W)	SR 303 (E)	0.33	25,578	47	47	5.09	1.55	0	0	Streetsboro
6	E Aurora Rd (SR 82)	Olde Eight Rd	SR 8	0.82	15,150	77	31	5.66	1.57	0	0	Macedonia
7	River St (SR 43)	Haymaker Pkwy (SR 59)	W Main St	0.21	4,741	14	22	12.84	1.57	0	0	Kent
8	S Cleveland-Massillon Rd	I-77	Rosemont Blvd/Elgin Dr	0.53	21,780	55	35	4.35	1.65	0	0	Fairlawn
9	E Tallmadge Ave (SR 261)	N Main St	Gorge Blvd	0.57	16,610	65	38	6.27	1.46	0	1	Akron
10	E Main St (SR 59)	Willow St	Luther Av	0.42	18,195	62	49	7.41	1.39	0	1	Kent
11	S Water St (SR 43)	SR 261	Cherry St	0.48	17,292	37	26	4.07	1.65	0	1	Kent
12	Howe Ave	Cuyahoga Falls Corp Line	Main St	0.23	29,683	27	39	3.61	1.59	0	0	Cuyahoga Falls
13	W Market St (SR 18)	Miller Rd	Fairlawn East Corp Line	0.68	17,540	76	37	5.82	1.42	0	0	Fairlawn
14	Copley Rd (SR 162)	St Micheals	S Hawkins Ave	0.49	9,328	36	24	7.19	1.44	0	2	Akron
15	E Main St (SR 59)	Horning Rd	Kent East Corp Line	0.50	19,184	46	31	4.38	1.52	0	1	Kent
16	Arlington Rd	Turkeyfoot Lake Rd (SR 619)	Green North Corp Line	0.95	20,305	141	49	6.68	1.35	0	1	Green
17	Canton Rd (CR 66)	Sanitarium Rd (CR136)	Waterloo Rd (US224)	1.02	14,870	81	26	4.88	1.47	0	1	Summit Co-Springfield Twp
18	Arlington Rd (CR 15)	I-77/Green NCL	Killian Rd (CR135)	0.62	18,130	61	33	4.96	1.43	0	3	Summit Co-Springfield Twp
19	State Rd	Cuyahoga Falls Corp Line	Broad Blvd	0.66	14,700	44	22	4.14	1.64	1	0	Cuyahoga Falls
20	Brittain Rd	E Tallmadge Ave (SR 261)	Independence Ave	0.61	12,614	47	26	5.58	1.43	0	0	Akron
21	SR 14/44	SR 59	SR 5 (end SR 14 overlap)	0.39	17,345	28	24	3.78	1.57	0	0	Portage Co-Ravenna Twp
22	State Rd	Portage Trail	Graham Rd	0.27	22,210	23	28	3.50	1.61	1	0	Cuyahoga Falls
23	Goodkirk St	Buchtel Ave	E Market St (SR 18)	0.24	10,990	29	40	10.04	1.28	0	0	Akron
24	Crain Ave	N Mantua St	N Water St	0.09	12,240	20	74	16.58	1.20	1	0	Kent
25	Massillon Rd (SR 241)	Boettler Rd	Turkeyfoot Lake Rd (SR 619)	1.01	21,609	117	39	4.90	1.38	0	0	Green
26	SR 43	SR 303	Frost Rd	1.51	17,586	103	23	3.54	1.70	0	1	Streetsboro
27	N Main St (SR 91)	Streetsboro St (SR 303)	Aurora St	0.15	20,220	26	58	7.83	1.23	0	1	Hudson
28	S Maple St	Glendale Ave	W Market St (SR 18)	0.27	4,710	11	14	7.90	1.91	0	0	Akron
29	E Main St	Water St	Willow St	0.27	9,070	25	31	9.32	1.24	0	0	Kent
30	Graham Rd	Fishcreek Rd	Stow East Corp Line	0.66	14,750	47	24	4.41	1.43	0	0	Stow
31	E Exchange St	S Broadway St (SR 261)	Spicer St	0.76	21,317	101	44	5.69	1.26	1	5	Akron
32	Copley Rd (SR 162)	Storer Ave	East Ave	0.36	12,430	23	21	4.69	1.43	0	0	Akron
33	S High St (SR 261)	E Exchange St	E Market St (SR 18)	0.66	7,771	73	37	13.00	1.16	0	0	Akron
34	S Broadway St (SR 261)	E Exchange St	E Market St (SR 18)	0.66	10,998	37	19	4.66	1.51	0	0	Akron
35	Broad Blvd/Broadway East	Second St	Newberry St	0.29	16,170	38	44	7.40	1.16	0	0	Cuyahoga Falls
36	E Tallmadge Ave (SR 261)	Gorge Blvd	Home Ave	0.59	16,378	47	27	4.44	1.34	0	1	Akron
37	N Main St	E Tallmadge Ave	E Cuyahoga Falls Ave	0.36	10,420	18	17	4.38	1.56	0	1	Akron
37	Brittain Rd	Eastwood Ave	E Tallmadge Ave (SR 261)	1.18	12,350	64	18	4.01	1.55	0	1	Akron
39	W Market St (SR 18)	Ghent Rd	Miller Rd	0.30	28,390	50	56	5.36	1.16	0	0	Fairlawn
40	Wooster Rd N	Wooster Rd W	Hopocan Ave	0.41	9,475	21	17	4.94	1.48	0	0	Barberton
41	M.L. King Blvd (SR 59)	Market St Overpass	N Broadway St	0.35	18,439	21	20	2.97	1.76	0	0	Akron
42	E Main St (SR 59)	Freedom St (SR 88)	SR 14/SR 44	0.75	13,724	55	24	4.88	1.33	0	0	Ravenna
43	Wooster Rd N (SR 619 part)	State St	Barberton Corp Line	0.77	18,077	47	20	3.08	1.64	0	3	Barberton
44	Merriman Rd/Riverview Rd	N Portage Path	Smith Rd	0.99	15,170	60	20	3.65	1.47	0	0	Akron
45	W Main St (SR 59)	Diamond St	Sycamore St	0.37	11,540	19	17	4.06	1.53	0	1	Ravenna
46	S Chillicothe Rd (SR 43)	Aurora-Hudson Rd	Aurora Rd (SR 43)	0.43	15,734	27	21	3.64	1.44	1	0	Aurora
47	W Streetsboro St (SR 303)	Boston Mills Rd	Main St (SR 91)	0.54	17,083	40	25	3.96	1.35	0	0	Hudson
48	Kent Rd (SR 59)	Fishcreek Rd	Stow East Corp Line	0.35	18,730	23	22	3.20	1.52	0	0	Stow
49	Manchester Rd (SR 93)	Robinson Ave	Carnegie Ave	0.97	22,857	60	21	2.47	1.78	0	1	Sum Co-Coventry Twp
50	Ghent Rd	W Market St (SR 18)	Smith Rd	0.38	9,230	20	18	5.21	1.40	0	0	Fairlawn
51	Wooster Rd W	31st St	14th St NW	1.01	12,657	50	17	3.57	1.60	0	0	Barberton
52	Brittain Rd	E Market St (SR 18)	Newton St	0.74	9,157	31	14	4.18	1.65	0	2	Akron
52	W Portage Trail	State Rd	Second St	1.55	16,830	123	26	4.31	1.26	0	0	Cuyahoga Falls

Table 1
HIGH CRASH ROADWAY SECTIONS
RANKED BY COMPOSITE SCORE
2017-2019

Rank	Roadway Section	From	To	Length (miles)	Average Daily Traffic	Total Crashes	Crashes per mile per year	Crash Rate	Severity Index	Bike Related	Ped Related	Location
54	Gougler Ave (SR 43)	W Main St	N Mantua St	0.30	7,490	21	23	8.53	1.00	0	0	Kent
55	Garfield Rd W (SR 82)	Aurora Rd (SR 43)	Chillicothe Rd (SR 306)	0.24	9,885	15	21	5.77	1.27	0	0	Aurora
56	W Market St (SR 18)	Portage Path	Merriman Rd	0.59	12,360	44	25	5.51	1.18	0	0	Akron
57	E Cuyahoga Falls Ave	N Main St	Front St	0.99	13,255	53	18	3.69	1.45	3	0	Akron
58	S Water St	Haymaker Pkwy (SR 59)	E Main St	0.17	5,260	10	20	10.21	1.20	0	0	Kent
59	Manchester Rd (SR 93)	Carnegie Ave	Waterloo Rd	0.44	19,726	32	24	3.37	1.38	0	0	Akron
60	Front St/Kent Rd (SR 59)	Bailey Rd	Oak Park Blvd	0.37	12,791	22	20	4.25	1.36	0	0	Cuyahoga Falls
61	Graham Rd	Oakwood Dr/Wyoga Lake Rd	Hudson Dr	0.71	21,205	41	19	2.49	1.68	0	0	Stow
62	S Depeyster St	E Summit St	E Main St	0.25	2,793	10	13	13.08	1.40	0	0	Kent
63	Darrow Rd (SR 91)	Kent Rd (SR 59)	Stow Rd	0.63	14,896	42	22	4.09	1.29	0	0	Stow
64	E Main St (SR 59)	Prospect St	Freedom St (SR 88)	0.42	11,876	18	14	3.30	1.78	0	1	Ravenna
65	Howe Ave	Main St	Buchholzer Blvd	0.69	24,551	49	24	2.64	1.45	0	0	Cuyahoga Falls
66	SR 14	SR 303 (E)	Diagonal Rd	2.01	18,606	103	17	2.52	1.70	0	0	Streetsboro
67	S Arlington St (SR 764 part)	E Wilbeth Rd (SR 764)	E Archwood Ave	0.49	14,639	27	18	3.44	1.44	0	0	Akron
68	E Exchange St (SR 261 part)	S Main St	S Broadway St (SR 261)	0.14	9,201	8	19	5.67	1.25	0	0	Akron
69	N Main St (SR 261)	Olive St (W)	E Tallmadge Ave	0.32	8,339	14	15	4.79	1.43	1	0	Akron
69	SR 5/44	I-76	Prospect St	0.44	18,981	22	17	2.41	1.82	0	0	Portage Co-Rootstown Twp
71	Wooster Rd W	14th St NW	Wooster Rd N	0.76	10,919	33	14	3.63	1.55	0	1	Barberton
72	Graham Rd	Hudson Dr	Silver Lake West Corp Line	0.44	28,680	49	37	3.55	1.20	0	0	Stow
73	S Cleveland-Massillon Rd	Rosemont Blvd/Elgin Dr	W Market St (SR 18)	0.71	19,560	48	23	3.16	1.38	0	1	Fairlawn
74	Copley Rd/S Maple St (SR 162)	Diagonal Rd/S Portage Path	W Exchange St	0.33	8,970	12	12	3.70	1.83	0	1	Akron
75	N Portage Path	Merriman Rd	Portage Trail	0.28	16,600	18	21	3.54	1.33	0	0	Akron
76	Manchester Rd (SR 93)	State St (CR162)	Robinson Ave (CR 54)	0.89	14,406	42	16	2.99	1.62	0	1	Sum Co-Coventry Twp
77	SR 14	I-480 ramp to Turnpike	SR 303 (W)	1.62	31,551	117	24	2.09	1.48	0	0	Streetsboro
78	W Market St (SR 18)	Sand Run Rd	Hawkins Ave	1.12	20,273	75	22	3.02	1.37	1	1	Akron
78	SR 14/44	Ravenna NE Corp Line	SR 59	1.00	14,406	43	14	2.73	1.81	0	0	Portage Co-Ravenna Twp
80	S Arlington St	E Waterloo Rd	E Wilbeth Rd (SR 764)	0.70	12,800	35	17	3.57	1.40	0	3	Akron
81	Wooster Rd N	Norton Ave	State St	0.50	11,850	20	13	3.08	1.80	0	0	Barberton
82	W Exchange St	Rhodes Ave	Dart Ave	0.53	8,040	27	17	5.79	1.22	0	0	Akron
83	S Aurora Rd (SR 43)	SR 306	SR 82	0.36	9,182	13	12	3.59	1.77	0	0	Aurora
84	S Water St (SR 43)	Cherry St	Haymaker Pkwy (SR 59)	0.72	13,583	38	18	3.55	1.37	1	0	Kent
85	Home Ave/Main St	Independence Ave	Howe Ave	0.57	12,895	25	15	3.11	1.56	1	1	Akron
86	Second St	Broad Blvd	Oakwood Dr	0.38	9,700	18	16	4.46	1.33	0	1	Cuyahoga Falls
87	Canton Rd (SR 91)	Waterloo Rd (US224)	Akron SCL	0.72	15,355	30	14	2.48	2.20	0	0	Sum Co-Springfield Twp
88	Cuyahoga St/Northampton Rd	Sackett Ave	Portage Trail	0.86	5,730	28	11	5.19	1.57	0	0	Akron
89	E Aurora Rd (SR 82)	SR 8	N Bedford Rd	0.72	16,273	45	21	3.51	1.27	0	0	Macedonia
90	US0224 (Waterloo Rd)	Akron ECL	Canton Rd (SR 91 / CR 66)	1.52	20,615	74	16	2.16	1.65	0	0	Sum Co-Springfield Twp
91	E Main St (SR 59)	Luther Av	Horning Rd	0.32	25,916	22	23	2.42	1.36	0	0	Kent
92	Canton Rd (SR 91)	Akron SCL	Triplett Blvd	0.33	15,180	20	20	3.65	1.20	0	0	Akron
93	S Prospect St	Ravenna SCL	Lake Ave	0.19	9,640	7	12	3.49	1.57	0	0	Ravenna
94	W Market St (SR 18)	Smith Rd	Ghent Rd	0.71	20,490	37	17	2.32	1.49	0	0	Fairlawn
95	N Mantua St (SR 43)	Gougler Ave	Kent North Corp Line	1.02	16,994	59	19	3.11	1.34	1	0	Kent
96	Ravenna Rd	Shepard Rd	Chamberlin Rd	0.79	10,700	28	12	3.03	1.86	0	1	Twinsburg
97	W Cedar St	Dart Ave	Locust St	0.28	9,020	12	14	4.34	1.33	0	0	Akron
98	Graham Rd	State Rd	Oakwood Dr/Wyoga Lake Rd	1.18	12,774	58	16	3.51	1.34	0	0	Cuyahoga Falls
99	Manchester Rd (SR 93)	Waterloo Rd	Wilbeth Rd (SR 764)	0.59	11,740	27	15	3.56	1.37	0	1	Akron
100	Wabash Ave	Codding Ave	W Cedar St	0.12	2,820	5	14	13.49	1.00	0	0	Akron
101	W Portage Trail Ext	Northampton Rd	State Rd	1.18	18,420	57	16	2.39	1.49	0	0	Cuyahoga Falls
102	SR 14	Cleveland Rd (CR 171)	Infirmiry Rd (CR 164)	0.47	13,580	18	13	2.58	1.67	0	0	Portage Co-Ravenna Twp
103	W&E Tallmadge Ave	Cuyahoga Falls Ave	N Main St	0.43	9,365	14	11	3.17	2.50	1	2	Akron
104	E Steels Corners Rd	State Rd	Cuyahoga Falls Corp Line	1.00	12,017	39	13	2.96	1.56	0	0	Cuyahoga Falls
105	S Arlington St	2nd Ave	E Market St (SR 18)	0.58	11,110	27	16	3.83	1.30	0	0	Akron
106	SR 59	SR 261	Brady Lake Rd (CR 162)	2.55	16,334	98	13	2.15	1.98	0	2	Portage Co-Ravenna Twp

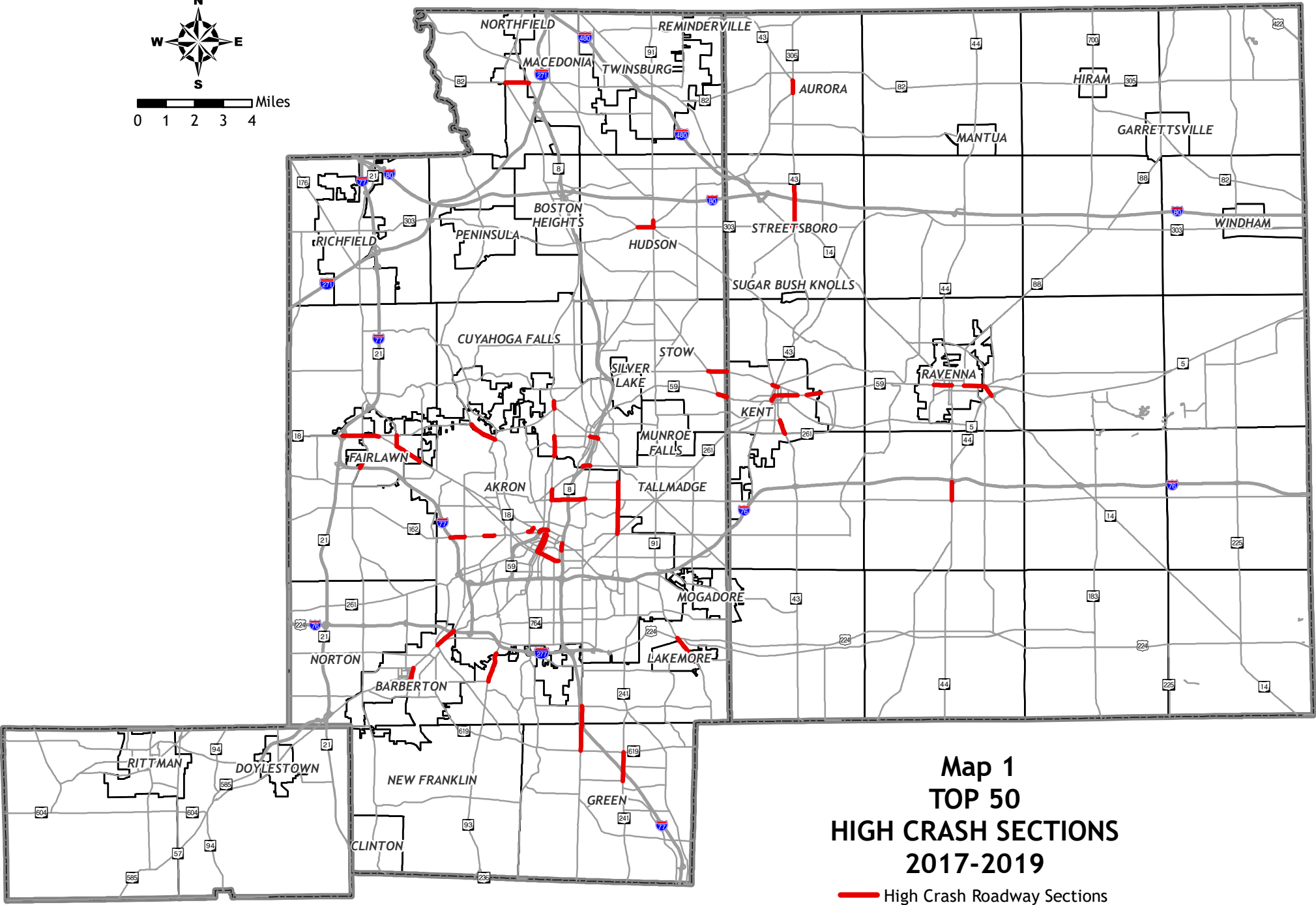
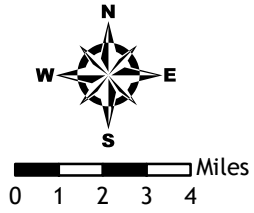
Table 1
HIGH CRASH ROADWAY SECTIONS
RANKED BY COMPOSITE SCORE
2017-2019

Rank	Roadway Section	From	To	Length (miles)	Average Daily Traffic	Total Crashes	Crashes per mile per year	Crash Rate	Severity Index	Bike Related	Ped Related	Location
107	W&E Market St (SR 18)	Maple St	Main St	0.39	19,736	21	18	2.49	1.38	0	0	Akron
108	E Highland Rd	SR 8	Valley View Rd	1.25	17,565	75	20	3.12	1.24	0	0	Macedonia
109	Darrow Rd (SR 91)	Newton St	Akron Corp Line	0.85	13,883	31	12	2.40	2.00	0	1	Akron
110	Main St	Howe Ave	Newberry St	0.45	11,370	18	13	3.21	1.44	0	0	Cuyahoga Falls
111	S Mantua St (SR 43)	Haymaker Pkwy (SR 59)	W Main St	0.19	5,490	7	12	6.13	1.29	0	0	Kent
112	W Tallmadge Ave/West Ave (SR 261)	Brittain Rd	Tallmadge Circle	1.26	13,574	51	13	2.72	1.51	0	0	Tallmadge
113	Manchester Rd (SR 93)	Wilbeth Rd (SR 764)	SB ramp to old Manchester Rd	0.68	7,442	24	12	4.33	1.42	0	0	Akron
114	South St	Wolf Ledges Pkwy/Bellows St	Brown St	0.49	4,420	15	10	6.32	1.40	0	1	Akron
115	SR 43	Kent North Corp Line	Streetsboro South Corp Line	2.40	15,206	90	13	2.25	1.78	0	0	Portage Co-Franklin Twp
116	E Market St (SR 18)	Main St	Forge St	0.65	18,222	36	18	2.78	1.28	0	0	Akron
117	Main St (SR 303)	Riverview Rd	Locust St/Akron-Peninsula Rd	0.36	8,308	11	10	3.36	1.73	0	0	Peninsula
118	State Rd	Broad Blvd	Portage Trail	0.96	16,580	48	17	2.75	1.33	1	0	Cuyahoga Falls
119	Kent Rd (SR 59)	Darrow Rd (SR 91)	Fishcreek Rd	2.22	16,793	96	14	2.35	1.48	0	1	Stow
120	Kenmore Blvd	Wooster Rd N/East Ave	W Wilbeth Rd	0.57	3,860	21	12	8.72	1.19	0	0	Akron
121	South Ave (SR 91)	Tallmadge SCL	Tallmadge Circle	1.11	11,651	49	15	3.46	1.33	0	0	Tallmadge
122	W&E Portage Trail	Second St	Newberry St/Munroe Falls Ave	0.29	18,960	17	20	2.82	1.24	0	0	Cuyahoga Falls
123	Carroll St	Fountain St	E Market St (SR 18)	0.48	3,030	16	11	10.05	1.25	0	0	Akron
124	Fishcreek Rd	Graham Rd	Kent Rd (SR 59)	0.88	16,530	37	14	2.32	1.49	0	1	Stow
124	Darrow Rd (SR 91)	E Highland Rd	Aurora Rd (SR 82)	0.95	22,712	60	21	2.54	1.20	0	0	Twinsburg
126	Graham Rd	Darrow Rd (SR 91)	Fishcreek Rd	1.85	14,223	71	13	2.46	1.54	0	0	Stow
127	Rhodes Ave/Euclid Ave/Monroe	Euclid/Rhodes/Rhodes	W Exchange/SR 59/SR 59	0.64	3,970	21	11	7.55	1.29	0	0	Akron
128	W Main St (SR 59)	Spaulding Dr	Longmere Dr	0.50	19,213	24	16	2.28	1.42	0	0	Kent
129	E Market St (SR 18)	Mogadore Rd	Canton Rd (SR 91)	0.95	12,112	40	14	3.17	1.35	0	0	Akron
130	S Arlington St	E Archwood Ave	2nd Ave	1.18	12,335	41	12	2.57	1.63	1	2	Akron
131	E Thornton St	S Main St	Grant St	0.42	5,507	16	13	6.32	1.00	0	0	Akron
131	Fountain St	E Exchange St	Buchtel Ave	0.38	3,900	14	12	8.63	1.00	0	0	Akron
133	W Market St (SR 18)	Hawkins Ave	Twin Oaks Rd	0.82	13,320	40	16	3.34	1.20	0	0	Akron
134	Newberry St	Main St	Broadway East/Tallmadge Rd	0.56	9,150	18	11	3.21	1.56	0	0	Cuyahoga Falls
135	W Market St (SR 18)	Merriman Rd	Maple St	0.72	20,819	35	16	2.13	1.40	1	1	Akron
136	Medina Rd (SR 18)	S Hametown Rd (CR253)	I-77 centerline	0.89	39,415	52	19	1.35	1.35	0	0	Sum Co-Copley Twp
137	Hill St/E Buchtel Ave	University Ave	S Union St	0.33	8,403	12	12	3.95	1.33	0	1	Akron
138	E Market St (SR 18)	E Buchtel Ave	E Exchange St	0.53	12,105	25	16	3.56	1.16	0	0	Akron
139	Franklin Ave	W Summit St	E Main St	0.27	4,050	9	11	7.52	1.22	0	0	Kent
140	Fishcreek Rd	Stow Rd	Graham Rd	1.63	13,275	59	12	2.49	1.54	0	0	Stow
141	Brown St	E Archwood Ave	E South St	1.05	6,905	37	12	4.66	1.27	0	0	Akron
142	Darrow Rd (SR 91)	Stow South Corp Line	Kent Rd (SR 59)	0.50	15,720	19	13	2.21	1.53	0	0	Stow
143	W Exchange St	Work Dr/S Portage Path	Rhodes Ave	0.36	10,460	11	10	2.67	1.73	0	0	Akron
144	Sumner St	Voris St	E Exchange St	0.66	1,500	21	11	19.37	1.19	0	1	Akron
145	E Summit St	S Lincoln St	Loop Rd	1.03	10,523	39	13	3.29	1.36	0	2	Kent
145	W Aurora Rd (SR 82)	I-480	Darrow Rd (SR 91)	0.56	14,487	27	16	3.03	1.22	0	0	Twinsburg
147	E Waterloo Rd	Brown St	S Arlington St	1.00	13,000	46	15	3.23	1.22	0	1	Akron
148	5th St SE (SR 619)	Barberton Corp Line	Robinson Ave	0.81	8,401	25	10	3.36	1.48	0	1	Barberton
149	N High St (SR 261)	E Market St (SR 18)	M.L. King Blvd (SR 59)	0.16	6,873	6	13	4.98	1.00	0	0	Akron
150	W Turkeyfoot Lake Rd (SR 619)	Green West Corp Line	S Main St	0.50	11,700	15	10	2.34	1.93	0	0	Green
151	Darrow Rd / S Main St (SR 91)	Hudson Dr	Streetsboro St (SR 303)	1.22	16,969	57	16	2.51	1.32	0	0	Hudson
152	East Ave	Akron Corp Line	Iona Ave	0.90	8,493	31	11	3.70	1.32	0	0	Akron
153	E Exchange St	Spicer St	E Market St (SR 18)	0.92	13,373	37	13	2.75	1.32	0	2	Akron
154	W Exchange St (SR 261 part)	Dart Ave	S Main st	0.55	10,106	22	13	3.61	1.00	0	0	Akron
155	Graham Rd	Silver Lake West Corp Line	Englewood Dr	1.05	22,830	40	13	1.52	1.45	0	0	Silver Lake
156	SR 59	Alpha Dr	SR 261	0.41	19,184	13	11	1.51	1.77	0	0	Portage Co-Franklin Twp
157	S Frank Blvd	White Pond Dr	W Market St (SR 18)	0.44	9,420	16	12	3.53	1.25	0	0	Akron
157	Bailey Rd	Northmoreland Blvd	Munroe Falls Ave	0.62	8,590	19	10	3.26	1.42	0	0	Cuyahoga Falls
159	Smith Rd	Ghent Rd	Owasso Ave	0.53	14,630	24	15	2.83	1.17	0	0	Akron

Table 1
HIGH CRASH ROADWAY SECTIONS
 RANKED BY COMPOSITE SCORE
 2017-2019

Rank	Roadway Section	From	To	Length (miles)	Average Daily Traffic	Total Crashes	Crashes per mile per year	Crash Rate	Severity Index	Bike Related	Ped Related	Location
160	E Waterloo Rd (US 224)	Geo Washington Blvd (SR 241)	Akron Corp Line	0.51	19,189	20	13	1.87	1.40	0	0	Akron
161	S Main St	Exchange St	Bowery St	0.35	6,855	12	11	4.57	1.00	0	0	Akron
162	SR 43	I-76	Kent South Corp Line	1.61	22,905	53	11	1.31	1.57	1	0	Por Co-Brimfield Twp
163	S Cleveland-Massillon Rd	Greenwich Rd/Norton Ave	I-76	0.94	13,510	33	12	2.37	1.42	0	0	Norton
164	W Cedar St	Rhodes Ave	Dart Ave	0.57	7,055	19	11	4.31	1.11	1	0	Akron
165	Northfield Rd (SR 8)	Olde Eight Rd	Sagamore Rd/Northfield NCL	1.09	16,051	41	13	2.14	1.39	0	0	Northfield
166	W Main St (SR 59)	Kent West Corp Line	Spaulding Dr	0.28	19,960	11	13	1.80	1.36	0	0	Kent
167	E Tallmadge Ave (SR 261)	Home Ave	Brittain Rd	1.16	16,690	41	12	1.93	1.44	0	1	Akron
168	S Main St	Wilbeth Rd (SR 764)	S Broadway St	1.11	13,330	35	11	2.16	1.51	0	0	Akron
169	Bailey Rd/Hudson Dr	Munroe Falls Ave	Front St (SR 59)	0.49	12,590	20	14	2.96	1.10	0	0	Cuyahoga Falls
170	N Canton Rd/Darrow Rd (SR 91)	Mogadore Rd	Newton St	0.66	18,434	31	16	2.33	1.13	0	0	Akron
171	E Market St (SR 18)	E Exchange St	Seiberling St	1.12	9,714	34	10	2.85	1.41	0	0	Akron
172	Howe Ave	Buchholzer Blvd	Brittain Rd/Bailey Rd	0.30	13,560	10	11	2.24	1.40	0	0	Cuyahoga Falls
173	Kent Rd (SR 59)	Stow West Corp Line	Darrow Rd (SR 91)	0.57	15,330	19	11	1.99	1.42	1	0	Stow
174	Oakwood Dr/Front St (SR 59)	Second St	Bailey Rd	0.73	10,990	24	11	2.73	1.33	0	0	Cuyahoga Falls
175	Copley Rd (SR 162)	S Hawkins Ave	Storer Ave	0.69	15,170	22	11	1.92	1.45	1	0	Akron
176	SR 43	Tallmadge Rd (CR 18)	I-76	0.52	13,163	18	12	2.40	1.33	0	0	Por Co-Brimfield Twp
177	M.L. King Blvd/Perkins St (SR 59)	N Broadway St	N Adolph Ave	0.61	21,105	24	13	1.70	1.25	0	0	Akron
178	W Portage Trail Ext	Akron-Peninsula Rd	Northampton Rd	1.04	16,957	33	11	1.71	1.42	1	0	Cuyahoga Falls
179	S Miller Rd	Ridgewood Rd	W Market St (SR 18)	0.98	19,350	37	13	1.78	1.27	1	0	Akron
180	S Broadway St (SR 261)	Bartges St	E Exchange St	0.52	13,118	17	11	2.28	1.24	0	0	Akron
181	SR 8	I-271 ramps	SR 82	1.47	27,762	48	11	1.08	1.25	0	0	Macedonia

Red denotes that the segment had at least one fatality



Map 1
TOP 50
HIGH CRASH SECTIONS
2017-2019
— High Crash Roadway Sections

High Crash Intersections

Crashes that occur within a radius of 250 feet from the center of an intersection and involve at least two vehicles are usually considered an intersection-related crash. Exceptions to this rule were driveway-related crashes and crashes that had non-intersection characteristics such as departing intersection. All intersections in the AMATS area were considered, including those of roads that are not federally classified.

- AMATS identified 350 intersections that have a minimum of 10 crashes and a crash rate of one or more over the three year period.
- Table 2 lists the 350 high crash intersections ranked by composite score. This table also notes if any crashes were bicycle or pedestrian related. Map 2 shows the top 50 high crash intersections. Please note that the second worst intersection, South Broadway Street and East Miller Avenue, was just south of a major freeway reconstruction project on I-76/I-77. Although crashes occurring in a construction zone are removed from our data, this location is just on the border and was probably impacted by the adjacent construction.

High Crash Freeway Locations

The analysis of freeway crashes in the AMATS area is done by the central office of the Ohio Department of Transportation (ODOT) in Columbus. ODOT's analysis of freeways is done using methodology from the Highway Safety Manual. The freeway system is divided into *rural* and *urban* and is analyzed by examining segments that are one-tenth of a mile long. ODOT only considers the top 50 rural and top 50 urban locations statewide for further study. For further information about top freeway crash locations along with other 2018 HSIP Priority Locations from ODOT please follow the following link. Please note that 2019 HSIP Priority Locations have not yet been released.

<http://www.dot.state.oh.us/Divisions/Planning/ProgramManagement/HighwaySafety/HSIP/Pages/Priority-Lists-Initiatives.aspx>

Table 2
HIGH CRASH INTERSECTIONS
RANKED BY COMPOSITE SCORE
2017-2019

Rank	Street	Intersecting Street(s)	Approach Ave. Daily Traffic	Total Crashes	Crash Rate	Severity Index	Bike Related	Ped Related	Location
1	SR 14/SR 303	SR 43	41,044	116	2.58	1.59	0	0	Streetsboro
2	S Broadway St	E Miller Ave (Close to major fwy construction)	16,680	43	2.35	1.70	0	3	Akron
3	N Howard St	Glenwood Ave	8,775	30	3.12	1.87	0	0	Akron
4	SR 14	Mondial Pkwy/Singletary Dr	27,030	53	1.79	1.68	0	0	Streetsboro
5	S Broadway St	Rosa Paks Dr	13,618	49	3.29	1.49	0	0	Akron
6	S Maple St (SR 162)	W Cedar St	13,820	32	2.11	1.81	1	0	Akron
7	MLK Jr. Blvd (SR 59)	N Broadway St (SR 261)	22,402	51	2.08	1.55	0	0	Akron
8	US 224	SR 225	8,338	25	2.74	2.04	0	0	Portage Co-Deerfield Twp
9	S Arlington St	S Case Av/Johnston St	15,285	38	2.27	1.58	0	0	Akron
10	S Arlington Rd	Killian Rd	23,130	44	1.74	1.64	0	0	Summit Co-Springfield Twp
10	SR 585	Eastern Rd	17,404	33	1.73	1.91	0	0	Norton
12	Portage Trail	2nd St	29,350	51	1.59	1.67	1	0	Cuyahoga Falls
13	Bellows St	Crosier St	3,230	26	7.35	1.69	0	0	Akron
14	MLK Jr. Blvd (SR 59)	N High St (SR 261)	25,308	45	1.62	1.67	0	1	Akron
15	S Miller Rd	Ridgewood Rd /I-77 Ramps	28,552	50	1.60	1.64	0	0	Fairlawn
16	Graham Rd	Fishcreek Rd	28,940	55	1.74	1.51	1	1	Stow
17	Darrow Rd (SR 91)	Graham Rd	34,456	64	1.70	1.50	0	0	Stow
18	S Maple St (SR 162)	Rhodes Ave	13,195	27	1.87	1.81	0	0	Akron
19	Manchester Rd (SR 93)	W Waterloo Rd	24,013	47	1.79	1.51	0	1	Akron
20	W Cedar St	Rand Ave	13,120	27	1.88	1.74	0	0	Akron
21	Brookmont Dr	Brookwall Dr	6,020	21	3.19	1.86	0	0	Fairlawn
22	Broad Blvd	Tallmadge Rd/Newberry St	23,415	53	2.07	1.42	0	0	Cuyahoga Falls
23	Riverview Rd	Ira Rd	5,266	21	3.64	1.76	0	0	Cuyahoga Falls
24	Archwood Ave	Coventry St	8,340	24	2.63	1.67	0	0	Akron
25	E Market St (SR 18)	Mogadore Rd/I-76 Ramps	37,408	67	1.64	1.48	0	2	Akron
26	S Arlington St	E Waterloo Rd	21,783	45	1.89	1.44	0	1	Akron
27	E Tallmadge Ave (SR 261)	Home Ave	29,800	53	1.62	1.49	0	0	Akron
28	S Main St	Swartz Rd/US 224 EB Ramps	21,338	43	1.84	1.47	1	0	Akron
29	SR 82	Chamberlain Rd	7,650	20	2.39	2.10	0	0	Portage Co-Mantua Twp
30	SR 82	Mantua Center Rd	10,720	22	1.87	2.18	0	0	Portage Co-Mantua Twp
31	Broad Blvd	2nd St	20,480	34	1.52	1.71	0	0	Cuyahoga Falls
32	State St (SR 619)	Wooster Rd N (SR 619)	23,600	43	1.66	1.51	0	0	Barberton
33	Glenwood Ave	SR 8 Ramps/Gorge Blvd	10,988	35	2.91	1.40	0	0	Akron
34	SR 14	SR 44/N Chestnut St	22,175	33	1.36	1.85	0	1	Ravenna
35	W Exchange St	Dart Av	15,160	36	2.17	1.44	1	0	Akron
36	Portage Trail	State Rd	34,680	86	2.26	1.28	0	1	Cuyahoga Falls
36	N Mantua St (SR 43)	Fairchild Ave	28,500	55	1.76	1.40	0	0	Kent
38	Darrow Rd (SR 91)	Glenwood Dr	19,320	64	3.03	1.25	0	0	Twinsburg
39	Tallmadge Circle		38,034	255	6.12	1.18	2	0	Tallmadge
40	SR 43	E Howe Rd	20,970	31	1.35	2.00	0	0	Portage Co-Brimfield Twp
41	S Water St (SR 43)	SR 261	28,953	50	1.58	1.48	0	0	Kent
42	E Tallmadge Ave (SR 261)	Brittain Rd	27,066	43	1.45	1.56	0	1	Akron
43	2nd St	Northland St	5,570	24	3.93	1.50	0	0	Cuyahoga Falls
44	Medina Rd (SR 18)	Crystal Lake Rd/Montrose West Ave	48,380	67	1.26	1.57	0	0	Summit Co-Bath Twp
45	Eastern Rd	Portage St/Wooster Rd W	4,700	18	3.50	1.78	0	0	Wayne Co-Chippewa Twp
45	Brown St	E Thornton St	6,570	20	2.78	1.70	1	0	Akron

Table 2
HIGH CRASH INTERSECTIONS
RANKED BY COMPOSITE SCORE
2017-2019

Rank	Street	Intersecting Street(s)	Approach Ave. Daily Traffic	Total Crashes	Crash Rate	Severity Index	Bike Related	Ped Related	Location
47	SR 8	Macedonia Commons Blvd/I-271 Ramps	20,600	49	2.17	1.33	0	0	Macedonia
48	Vernon Odom Blvd (SR 261)	Rand St/Rhodes Ave	9,069	22	2.22	1.64	0	0	Akron
49	Northeast Ave (SR 261)	E Howe Rd/N Munroe Ave	19,180	52	2.48	1.27	0	0	Tallmadge
50	SR 14/44	SR 59	15,150	27	1.63	1.67	0	0	Portage Co-Ravenna Twp
51	Opportunity Pkwy (SR 261)	Dart Ave	12,938	31	2.19	1.45	0	0	Akron
52	SR 303	Akron Cleveland Rd/SR 8 Ramps	20,971	44	1.92	1.36	0	0	Boston Heights
53	Triplett Blvd (SR 764)	Kelly Ave/Lindsay Ave	15,507	25	1.47	2.12	0	0	Akron
54	Kent Rd (SR 59)	Darrow Rd (SR 91)	22,175	32	1.32	1.81	0	0	Stow
55	E Market St (SR 18)	Arlington St	18,810	33	1.60	1.55	0	0	Akron
56	E Turkeyfoot Lake Rd (SR 619)	Arlington Rd	29,089	43	1.35	1.56	0	0	Green
57	E Market St (SR 18)	Main St	27,289	43	1.44	1.51	0	1	Akron
58	Memorial Pkwy	Merriman Rd	18,165	35	1.76	1.46	0	0	Akron
59	Merriman Rd	N Portage Path	25,935	69	2.43	1.17	0	0	Akron
60	SR 5/44	Lynn Rd	11,842	22	1.70	1.82	0	0	Portage Co-Rootstown Twp
61	SR 14	Market Square Dr	33,700	49	1.33	1.53	0	0	Streetsboro
62	W Exchange St	Rand Ave	14,630	27	1.69	1.59	1	0	Akron
63	E Waterloo Rd (US 224)	Canton Rd (SR 91/CR 66)	34,854	65	1.70	1.34	0	0	Summit Co-Springfield Twp
63	Broad Blvd	SR 8 Ramps	40,437	73	1.65	1.36	0	1	Cuyahoga Falls
65	E Market St (SR 18)	High St (SR 261)	11,405	30	2.40	1.40	0	0	Akron
66	S Arlington St	5th Ave	14,700	27	1.68	1.59	0	1	Akron
67	S Broadway St	E Thornton St	18,245	39	1.95	1.36	0	0	Akron
68	Wooster Rd N	Wooster Rd W/Robinson Ave	16,623	27	1.48	1.67	0	0	Barberton
69	W Market St (SR 18)	Smith Rd	24,604	34	1.26	1.71	0	0	Fairlawn
70	SR 261	Franklin Ave/Sunnybrook Rd	10,762	20	1.70	2.10	0	0	Kent
71	Vernon Odom Blvd (SR 261)	Superior Ave	13,265	24	1.65	1.67	0	0	Akron
72	SR 88	SR 305	4,743	14	2.70	2.43	0	0	Portage Co-Hiram Twp
73	Dart Av	W Thornton St	11,850	28	2.16	1.43	0	1	Akron
74	Massillon Rd (SR 241)	E Turkeyfoot Lake Rd (SR 619)	23,098	34	1.34	1.59	0	0	Green
75	Steels Corners Rd	Wyoga Lake Rd	16,569	38	2.09	1.32	0	0	Cuyahoga Falls
76	E Exchange St	Spicer St	22,975	38	1.51	1.47	0	0	Akron
77	Wadsworth Rd (SR 261)	S Hametown Rd	7,354	16	1.99	2.25	0	0	Norton
78	Diagonal Rd	Mennonite Rd	4,800	14	2.66	2.29	0	0	Portage Co-Mantua Twp
79	Howe Ave	Brittain Rd/Bailey Rd/Tallmadge Rd/NW Ave	25,560	54	1.93	1.22	0	0	Cuyahoga Falls
80	E Market St (SR 18)	Case Ave	19,260	37	1.75	1.38	0	1	Akron
81	Tallmadge Rd	Walmart Dr	11,580	22	1.74	1.64	0	0	Portage Co-Brimfield Twp
82	Home Ave	Independence Ave	8,339	20	2.19	1.60	0	0	Akron
83	Manchester Rd (SR 93)	W Wilbeth Rd (SR 764)	14,850	37	2.28	1.27	0	0	Akron
84	Medina Rd (SR 18)	Springside Dr	37,789	46	1.11	1.70	0	0	Summit Co-Bath Twp
85	Perkins St (SR 59)	SR 8 Ramps	35,680	62	1.59	1.32	0	0	Akron
86	E Exchange St	Brown St	9,330	27	2.64	1.37	0	3	Akron
87	Carroll St	Fountain St	12,030	32	2.43	1.31	0	1	Akron
88	Kelly Ave	E Waterloo Rd/Emmitt Rd	13,473	29	1.97	1.41	0	0	Akron
89	W Market St (SR 18)	Maple St	21,356	36	1.54	1.44	0	2	Akron
90	SR 14	Infirmary Rd	7,650	16	1.91	2.00	0	0	Portage Co-Ravenna Twp
91	Tallmadge Ave	N Howard St	15,535	32	1.88	1.38	1	0	Akron
91	SR 14	Brook Valley Trail/Shady Lake Dr	27,030	34	1.15	1.76	0	0	Streetsboro

Table 2
HIGH CRASH INTERSECTIONS
RANKED BY COMPOSITE SCORE
2017-2019

Rank	Street	Intersecting Street(s)	Approach Ave. Daily Traffic	Total Crashes	Crash Rate	Severity Index	Bike Related	Ped Related	Location
93	Copley Rd (SR 162)	S Hawkins Ave	21,599	36	1.52	1.44	0	0	Akron
94	Cleveland Massillon Rd	Eastern Rd	7,182	15	1.91	2.33	0	0	Norton
95	Copley Rd (SR 162)	I-77 Ramps/St Micheals Ave	11,293	40	3.23	1.15	1	0	Akron
95	W Market St (SR 18)	Portage Path	17,525	40	2.08	1.25	0	2	Akron
97	SR 8	Aurora Rd (SR 82)	35,035	69	1.80	1.17	0	0	Macedonia
98	E Waterloo Rd/US 224	George Washington Blvd (SR 241)	29,982	56	1.71	1.25	0	0	Akron
99	S Arlington Rd	I-77 Ramps	21,220	35	1.51	1.46	0	0	Green
100	Hines Hill Rd	Valley View Rd	5,200	19	3.34	1.53	0	0	Hudson
101	E Tallmadge Ave (SR 261)	Gorge Blvd/SR 8 NB Off-ramp	25,743	48	1.70	1.29	0	1	Akron
102	East Ave	Russell Ave	4,795	17	3.24	1.59	0	1	Akron
103	E Aurora Rd (SR 82)	S Bedford Rd/Freeway Dr	16,725	40	2.18	1.20	0	0	Macedonia
104	S Arlington Rd	Arlington Ridge	22,860	33	1.32	1.55	0	0	Green
105	Grant St	E South St	11,405	27	2.16	1.37	0	0	Akron
106	Wooster Rd W	31st St	21,810	33	1.38	1.48	0	0	Barberton
107	Archwood Ave	Inman St	9,760	20	1.87	1.60	0	0	Akron
107	Darrow Rd (SR 91)	Terex Rd	25,550	32	1.14	1.75	0	0	Hudson
109	SR 8	Highland Ave	47,792	79	1.51	1.28	0	0	Macedonia
110	Manchester Rd (SR 93)	I-277/US 224 WB Off-ramp	25,883	42	1.48	1.38	0	1	Akron
111	W Market St (SR 18)	Miller Rd	35,580	62	1.59	1.26	0	0	Fairlawn
112	Wooster Rd N (SR 619)	East Ave/Kenmore Blvd/I-76 WB Ramps	17,485	33	1.72	1.36	0	0	Barberton
113	E Aurora Rd (SR 82)	Hadden Rd/Wilcox Dr	20,299	27	1.21	1.74	0	0	Twinsburg
114	N Howard St	North St	23,192	31	1.22	1.65	0	2	Akron
115	W Exchange St	Wabash Ave	12,640	32	2.31	1.25	0	0	Akron
116	E Exchange St	S Arlington St	17,960	30	1.53	1.47	1	0	Akron
117	Howe Ave	Main St	42,420	70	1.51	1.26	0	0	Cuyahoga Falls
118	E Wilbeth Rd (SR 764)	Coventry St/I-77 SB Ramp	12,909	27	1.91	1.37	0	0	Akron
119	Front St (SR 59)	Hudson Dr	26,846	45	1.53	1.31	0	1	Cuyahoga Falls
120	Vernon Odom Blvd (SR 261)	S Hawkins Ave	18,960	37	1.78	1.27	0	0	Akron
120	E Wilbeth Rd (SR 764)	Brown St	15,620	25	1.46	1.56	0	0	Akron
122	Tallmadge Rd	I-76 Ramps/Mogadore Rd (W & E Jct)	28,195	35	1.13	1.63	1	0	Portage Co-Brimfield Twp
123	Summit St	Powder Mill Rd	6,970	17	2.23	1.59	0	0	Portage Co-Franklin Twp
124	State Rd	Bath Rd	19,330	35	1.65	1.34	0	0	Cuyahoga Falls
125	Manchester Rd (SR 93)	E State St/State Mill Rd	17,969	26	1.32	1.62	0	0	Summit Co-Coventry Twp
126	W Exchange St (SR 261)	Locust St (SR 261)	12,491	30	2.19	1.27	0	0	Akron
127	State Rd	Steels Corners Rd	20,620	39	1.73	1.26	1	0	Cuyahoga Falls
127	S Main St	Killian Rd	15,720	23	1.34	1.70	0	0	Summit Co-Coventry Twp
129	Brittain Rd	Eastland Ave/Eastwood Ave	21,735	41	1.72	1.24	0	1	Akron
130	Massillon Rd (SR 241)	Boettler Rd	30,976	38	1.12	1.58	1	0	Green
131	E Glenwood Av	Dan St/Fouse Ave	6,780	21	2.83	1.38	0	0	Akron
132	W Bath Rd	Northampton Rd	9,016	19	1.92	1.53	0	0	Cuyahoga Falls
133	Wadsworth Rd (SR 57)	Easton Rd (SR 604)	7,619	14	1.68	2.43	0	0	Wayne Co-Chippewa Twp
134	Canton Rd (SR 91)	Mogadore Rd	21,399	32	1.37	1.44	0	0	Akron
135	Graham Rd	SR 8 Ramps	61,814	78	1.15	1.38	0	0	Cuyahoga Falls
136	S Broadway St (SR 261)	E Exchange St	31,166	53	1.55	1.19	0	0	Akron
137	SR 43	Tallmadge Rd	19,640	24	1.12	2.29	0	2	Portage Co-Brimfield Twp
138	Kent Rd (SR 59)	Marsh Rd	19,340	24	1.13	2.00	0	1	Stow

Table 2
HIGH CRASH INTERSECTIONS
RANKED BY COMPOSITE SCORE
2017-2019

Rank	Street	Intersecting Street(s)	Approach Ave. Daily Traffic	Total Crashes	Crash Rate	Severity Index	Bike Related	Ped Related	Location
139	S Main St	Turkeyfoot Lake Rd (SR 619)	23,448	30	1.17	1.60	0	0	Green
140	Old Forge Rd	Mogadore Rd	4,280	14	2.99	1.57	0	0	Portage Co-Brimfield Twp
141	East Ave	I-76 WB Off-ramp/Rosemond Ave	6,121	27	4.03	1.15	0	0	Akron
142	Diagonal Rd	Pioneer Trail	2,640	10	3.46	1.80	0	0	Portage Co-Mantua Twp
143	Carroll St	Goodkirk St	14,630	31	1.94	1.19	0	0	Akron
144	Vernon Odom Blvd (SR 261)	Collier Rd	7,643	14	1.67	1.93	0	0	Akron
145	Wadsworth Rd (SR 261)	SR 21 Ramps	11,355	24	1.93	1.33	0	0	Norton
146	Middleton Rd	Stow Rd	9,399	16	1.55	1.75	0	0	Hudson
147	E Tallmadge Ave (SR 261)	N Main St (SR 261)	23,125	30	1.18	1.53	1	0	Akron
148	N Arlington St	Hazel St	7,445	19	2.33	1.42	1	0	Akron
149	S High St	Selle St	14,420	22	1.39	1.55	0	0	Akron
150	SR 43	I-76 Ramps/Edson Rd	43,720	58	1.21	1.31	0	0	Portage Co-Brimfield Twp
151	SR 43	Randolph Rd	10,238	17	1.52	1.71	0	0	Portage Co-Suffield Twp
152	White Pond Dr	I-77 Ramps	16,305	24	1.34	1.50	0	0	Akron
153	SR 44	SR 303	11,833	17	1.31	2.24	0	0	Portage Co-Shalersville Twp
154	SR 44	Pioneer Trail	8,140	15	1.68	1.67	0	0	Portage Co-Mantua Twp
154	E Cedar St (SR 261)	S High St	13,705	24	1.60	1.42	0	1	Akron
156	SR 14	Cleveland Rd	8,755	14	1.46	2.43	0	0	Portage Co-Ravenna Twp
157	Diagonal Rd	East Ave	7,270	13	1.63	2.08	1	0	Akron
158	E Aurora Rd (SR 82)	Darrow Rd (SR 91)	28,485	46	1.47	1.17	0	0	Twinsburg
159	Graham Rd	Hudson Dr	34,465	50	1.32	1.24	0	0	Cuyahoga Falls
160	Massillon Rd (SR 241)	I-77 Ramps	67,721	80	1.08	1.38	0	0	Green
161	Russell Ave	Boulevard St	10,430	21	1.84	1.38	0	0	Akron
162	Hudson Dr	Terex Rd	13,820	26	1.72	1.31	0	0	Hudson
163	Broadview Rd (SR 176)	Boston Rd	4,910	11	2.05	1.73	0	0	Summit Co-Richfield Twp
163	S Main St	Archwood Ave	7,258	15	1.89	1.53	0	0	Akron
165	Howe Ave	Buchholzer Blvd	20,890	30	1.31	1.40	0	1	Cuyahoga Falls
166	E Wilbeth Rd (SR 764)	Sylvan Ave	10,034	15	1.37	1.93	0	0	Akron
167	Vernon Odom Blvd (SR 261)	East Ave	13,633	20	1.34	1.60	0	2	Akron
168	SR 261	Middlebury Rd	10,385	18	1.58	1.56	0	0	Kent
169	Bartges St	Dart Ave	6,845	14	1.87	1.57	0	0	Akron
170	Rhodes Ave	W Thornton St	8,930	15	1.53	1.67	0	0	Akron
171	Dart Av	W State St	6,750	22	2.98	1.18	0	0	Akron
172	Massillon Rd (SR 241)	Steese Rd	15,897	31	1.78	1.13	0	0	Green
173	SR 14/44	N Freedom St (SR 88)	21,190	24	1.03	1.83	0	0	Ravenna
174	N Arlington St	E Buchtel Ave	10,530	20	1.73	1.40	0	0	Akron
175	Graham Rd	Wyoga Lake Rd/Oakwood Dr	25,900	33	1.16	1.42	0	0	Cuyahoga Falls
176	S Arlington St	2nd St/Martin St/I-76 WB Off-ramp	14,160	19	1.23	1.74	1	0	Akron
177	US 224	SR 43	14,150	18	1.16	2.22	0	0	Portage Co-Suffield Twp
178	Copley Rd (SR 162)	Madison Ave	14,005	18	1.17	2.00	1	1	Akron
179	Buchtel Ave	Goodkirk St	18,240	22	1.10	1.73	0	1	Akron
180	E Market St (SR 18)	Canton Rd (SR 91)/Robindale Ave	19,416	29	1.36	1.34	0	0	Akron
181	W Cedar St	Dart Ave	12,600	23	1.67	1.35	0	0	Akron
182	Rand Ave	W Center St	3,860	13	3.08	1.46	0	1	Akron
182	W Main St (SR 59)	Sycamore St	13,990	21	1.37	1.48	0	0	Ravenna
182	E Tallmadge Ave	Blaine Ave	10,880	15	1.26	2.27	0	1	Akron

Table 2
HIGH CRASH INTERSECTIONS
RANKED BY COMPOSITE SCORE
2017-2019

Rank	Street	Intersecting Street(s)	Approach Ave. Daily Traffic	Total Crashes	Crash Rate	Severity Index	Bike Related	Ped Related	Location
185	E Market St (SR 18)	Broadway (SR 261)	27,825	39	1.28	1.26	0	0	Akron
186	Darrow Rd (SR 91)	I-480 Ramps	24,029	34	1.29	1.29	0	0	Twinsburg
187	Copley Rd (SR 162)	Diagonal Rd/S Portage Path	13,580	19	1.28	1.63	0	0	Akron
188	S Water St (SR 43)	Bowman Dr/Cherry St	18,298	24	1.20	1.50	0	0	Kent
188	E Market St (SR 18)	Hilbish Ave/Verdun Dr	18,442	23	1.14	1.61	0	1	Akron
190	Copley Rd (SR 162)	Frederick Blvd	10,378	16	1.41	1.63	0	1	Akron
191	State Rd	Sackett Ave	16,515	24	1.33	1.42	0	1	Cuyahoga Falls
191	Cleveland Massillon Rd	Rothrock Rd	20,440	23	1.03	1.78	0	0	Fairlawn
193	E Aurora Rd (SR 82)	Macedonia Commons Blvd/I-271 SB Ramp	26,818	37	1.26	1.27	1	0	Macedonia
194	MLK Jr. Blvd (SR 59)	Summit St	19,847	26	1.20	1.46	0	0	Akron
195	Hines Hill Rd	Olde Eight Rd	6,193	15	2.21	1.40	0	0	Boston Heights
196	Eastland Ave	Mohawk Ave	5,500	14	2.32	1.43	0	0	Akron
197	SR 14	I-76 Ramps	13,050	17	1.19	1.82	0	0	Portage Co-Edinburg Twp
198	Manchester Rd (SR 93)	Carnegie Ave	25,394	31	1.11	1.45	0	0	Akron
199	W Market St (SR 18)	Westgate Cir	10,680	21	1.80	1.29	0	1	Akron
200	Darrow Rd (SR 91)	Eastwood Ave	20,092	28	1.27	1.36	0	0	Akron
201	N Chestnut St	Loomis Pkwy	9,410	14	1.36	1.71	0	0	Ravenna
202	E Turkeyfoot Lake Rd (SR 619)	Myersville Rd	12,347	18	1.33	1.56	0	0	Green
203	W Waterloo Rd	I-277 Ramps	9,445	16	1.55	1.50	0	0	Akron
204	E Main St (SR 59)	Lincoln St	22,370	28	1.14	1.43	1	2	Kent
205	Bellows St	Archwood Ave	10,034	14	1.27	1.86	0	0	Akron
205	S Main St	Waterloo Rd	26,295	29	1.01	1.55	0	0	Akron
207	S Maple St (SR 162)	W Exchange St	18,367	22	1.09	1.64	0	0	Akron
208	Gilchrist Rd	I-76 Ramps	20,235	28	1.26	1.36	0	0	Akron
209	E Market St (SR 18)	E Exchange St	14,160	20	1.29	1.50	0	0	Akron
210	W Market St (SR 18)	Medina Rd (SR 18)/Cleveland Massillon Rd	45,676	56	1.12	1.21	0	0	Summit Co-Bath Twp
211	North Ave (SR 91)	Howe Rd	21,955	30	1.25	1.33	0	0	Tallmadge
212	S Miller Rd	Chamberlain Rd	14,970	18	1.10	2.00	0	0	Fairlawn
213	Brown St	Archwood Ave	14,010	22	1.43	1.36	1	0	Akron
214	S Main St	Wilbeth Rd (SR 764)	20,443	25	1.12	1.48	1	0	Akron
215	S Main St	Miller Ave/Old Main St	10,010	22	2.01	1.09	0	0	Akron
216	Cleveland Massillon Rd	I-77 Ramps	39,564	44	1.02	1.36	0	0	Fairlawn
217	E Main St	Depeyster St	8,900	13	1.33	1.77	0	2	Kent
218	Cleveland Massillon Rd	Brookwall Dr	22,105	25	1.03	1.56	0	0	Fairlawn
219	S Arlington Rd	Boettler Rd	18,685	23	1.12	1.52	0	0	Green
220	Hines Hill Rd	SR 8 Ramps	7,280	11	1.38	1.91	0	0	Boston Heights
221	Graham Rd	State Rd	23,191	32	1.26	1.25	0	0	Cuyahoga Falls
222	Buchtel Ave	Fountain St	8,400	17	1.85	1.35	0	2	Akron
223	S Hawkins Ave	Mull Ave	10,535	17	1.47	1.47	1	0	Akron
224	Kent Rd (SR 59)	Fishcreek Rd	22,443	27	1.10	1.44	0	0	Stow
225	Corporate Woods Cir	Corporate Woods Pkwy	5,850	17	2.65	1.24	0	0	Green
226	Tallmadge Rd	Sandy Lake Rd	6,390	10	1.43	2.00	0	0	Portage Co-Brimfield Twp
227	Broadview Rd (SR 176)	Wheatley Rd (SR 176)/Brecksville Rd	16,661	22	1.21	1.45	0	0	Richfield
228	Portage Trail	Valley Rd	20,975	25	1.09	1.48	0	0	Cuyahoga Falls
229	Broad Blvd	Front St	12,473	19	1.39	1.42	0	1	Cuyahoga Falls
230	Innovation Way (SR 241)	3rd Ave/I-76 WB ramps	9,330	13	1.27	1.77	0	0	Akron

Table 2
HIGH CRASH INTERSECTIONS
RANKED BY COMPOSITE SCORE
2017-2019

Rank	Street	Intersecting Street(s)	Approach Ave. Daily Traffic	Total Crashes	Crash Rate	Severity Index	Bike Related	Ped Related	Location
231	E Aurora Rd (SR 82)	Chamberlin Rd	14,487	21	1.32	1.38	0	0	Twinsburg
232	Wooster Rd N	Burt St	11,360	15	1.21	1.67	0	0	Barberton
232	Mt Eaton Rd (SR 94)	SR 585/Easton Rd (SR 604)	12,016	15	1.14	1.80	0	0	Wayne Co-Chippewa Twp
234	Southeast Ave	I-76 Ramps	10,238	20	1.78	1.20	0	0	Tallmadge
234	Main St (SR 91)	Streetsboro Rd (SR 303)	35,205	41	1.06	1.29	0	0	Hudson
236	Bellows St	Emerling Ave	1,640	11	6.13	1.36	0	1	Akron
237	Eastland Ave	Chapman Dr	5,500	10	1.66	1.60	0	0	Akron
238	SR 261	Campus Center Dr	16,785	21	1.14	1.48	0	0	Kent
239	Cleveland Canton Rd (SR 43)	Frost Rd	22,500	25	1.01	1.48	0	0	Streetsboro
240	S Arlington Rd	Moore Rd	21,740	24	1.01	1.50	0	0	Green
241	S Broadway St	Selle St	10,535	15	1.30	1.53	0	1	Akron
242	Triplett Blvd (SR 764)	Hilbish Ave	17,046	21	1.13	1.48	0	0	Akron
243	Olde Eight Rd	Twinsburg Rd	8,755	12	1.25	1.83	0	0	Summit Co-Northfield Ctr Twp
244	Brittain Rd	Goodyear Blvd	12,700	16	1.15	1.63	0	0	Akron
245	S Arlington Rd	Chenoweth Rd/I-77 NB On-ramp	19,720	27	1.25	1.22	0	0	Summit Co-Coventry Twp
246	Greenwich Rd	Medina Line Rd	9,100	13	1.30	1.62	0	0	Norton/Wadsworth Twp
247	S Main St	Cole Ave	7,445	13	1.59	1.46	0	0	Akron
248	Graham Rd	E Bath Rd/8th St	19,395	25	1.18	1.32	0	0	Cuyahoga Falls
249	5th St NE (SR 619)	Robinson Ave	16,623	22	1.21	1.36	0	0	Barberton
249	Brittain Rd	Evans Ave	15,380	19	1.13	1.53	0	0	Akron
251	E Aurora Rd (SR 82)	I-480 Ramps	15,865	21	1.21	1.38	0	0	Twinsburg
252	Highland Rd	Valley View Rd	19,455	25	1.17	1.32	0	0	Macedonia
253	5th St SE	Snyder Ave	9,630	16	1.52	1.38	0	0	Barberton
254	MLK Jr. Blvd (SR 59)	N Main St/Howard St	23,231	27	1.06	1.37	0	0	Akron
255	SR 8	Valley View Rd	16,155	23	1.30	1.26	0	0	Macedonia
256	Aurora Rd (SR 43)	W Garfield Rd (SR 82)	20,816	26	1.14	1.31	0	0	Aurora
257	Killian Rd	Pickle Rd	9,500	13	1.25	1.62	0	0	Summit Co-Springfield Twp
258	Myersville Rd	Killian Rd	6,810	11	1.48	1.55	0	0	Summit Co-Springfield Twp
259	Dart Ave	Euclid Ave	6,830	11	1.47	1.55	0	0	Akron
259	E Streetsboro Rd (SR 303)	Oviatt St	9,700	13	1.22	1.62	0	0	Hudson
261	E Aurora Rd (SR 82)	Shepard Rd	17,985	21	1.07	1.48	0	0	Macedonia
262	E Wilbeth Rd (SR 764)	Allendale Ave/I-77 Ramp	14,689	21	1.31	1.29	0	0	Akron
263	SR 5/44	Sandy Lake Rd	7,733	10	1.18	2.20	0	0	Portage Co-Rootstown Twp
264	Eastwood Ave	Morningview Ave	8,290	11	1.21	1.73	0	0	Akron
265	Gilchrist Rd	Skeleton Rd	8,425	11	1.19	1.73	0	0	Summit Co-Springfield Twp
266	E Waterloo Rd	Coventry St/I-77 NB On-ramp	15,440	18	1.06	1.56	0	0	Akron
267	Wooster Rd N	W Hopocan Ave	11,360	17	1.37	1.35	1	0	Barberton
268	E Main St (SR 59)	Horning Rd	17,750	20	1.03	1.50	0	1	Kent
269	Smith Rd	Sand Run Rd	12,770	16	1.14	1.50	0	0	Akron
270	Twinsburg Rd	Valley View Rd	9,450	14	1.35	1.43	0	0	Macedonia
271	Russell Ave	Superior Ave/I-76/77 WB/NB Off-ramp	6,560	13	1.81	1.31	0	0	Akron
272	Streetsboro Rd (SR 303)	Mt Vernon Dr/Superior Ave	8,530	11	1.18	1.73	0	0	Streetsboro
273	E Waterloo Rd	Glenmount Ave	13,195	15	1.04	1.67	0	0	Akron
274	Carroll St	Spicer St	8,837	13	1.34	1.46	1	0	Akron
275	Newton St	Goodyear Blvd	9,640	14	1.33	1.43	0	0	Akron
276	SR 43	Old Forge Rd	12,350	14	1.04	1.71	0	0	Portage Co-Brimfield Twp

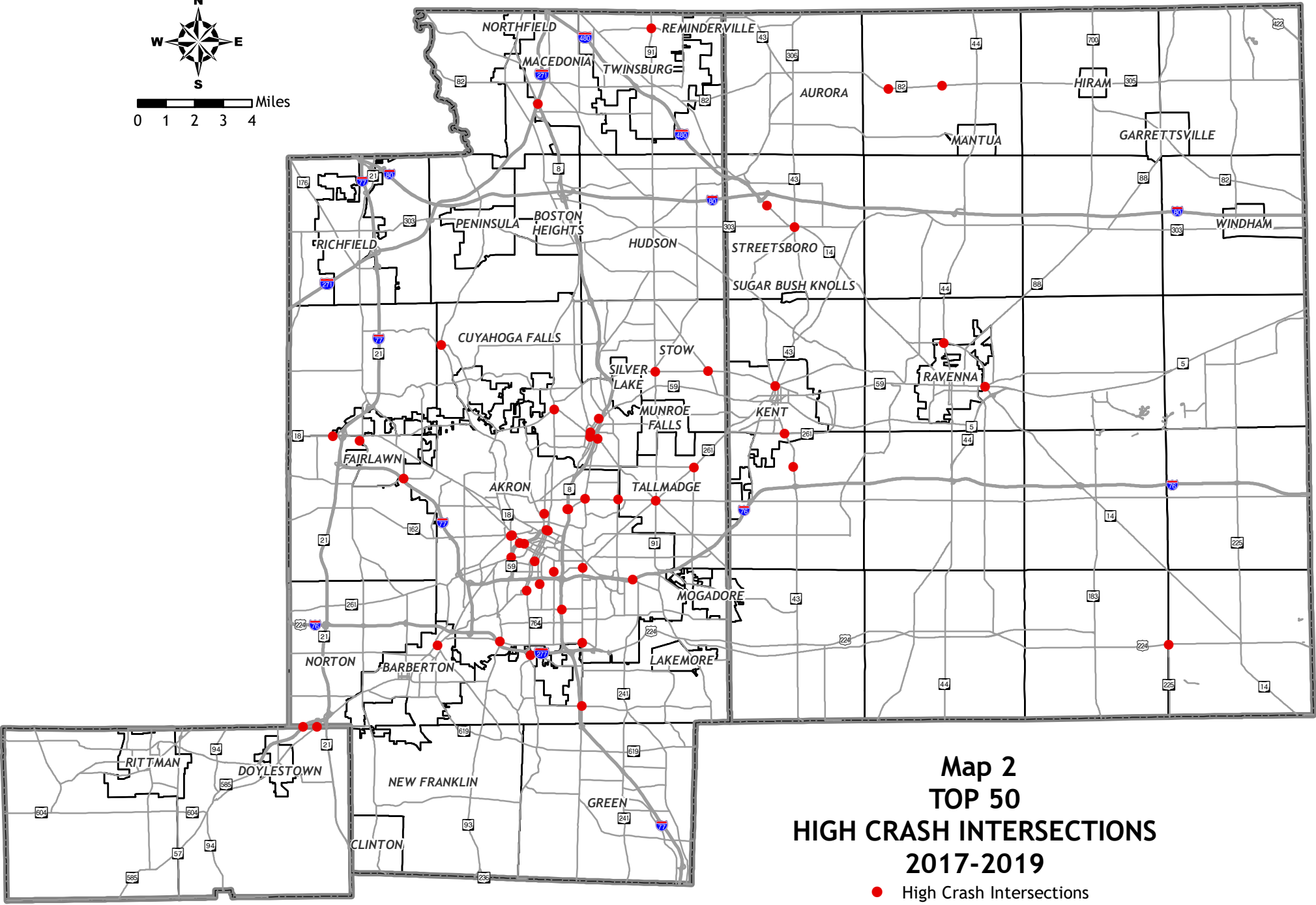
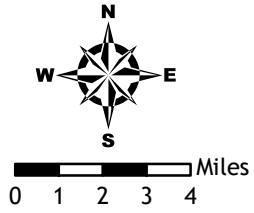
Table 2
HIGH CRASH INTERSECTIONS
RANKED BY COMPOSITE SCORE
2017-2019

Rank	Street	Intersecting Street(s)	Approach Ave. Daily Traffic	Total Crashes	Crash Rate	Severity Index	Bike Related	Ped Related	Location
277	Lauby Rd	I-77 Ramps	5,266	10	1.73	1.40	0	0	Green
278	Sumner St	Wheeler St	3,000	11	3.35	1.18	0	0	Akron
279	S Broadway St (SR 261)	E Buchtel Ave	7,258	15	1.89	1.00	0	0	Akron
280	S Arlington St	Archwood Ave	18,480	22	1.09	1.36	0	0	Akron
281	SR 44	Tallmadge Rd	13,865	17	1.12	1.47	0	0	Portage Co-Rootstown Twp
282	W Market St (SR 18)	Frank Blvd	12,335	15	1.11	1.53	1	0	Akron
283	Dart Ave	W Center St/Locust St	7,610	15	1.80	1.13	0	0	Akron
284	S Broadway St (SR 261)	University Ave	17,870	21	1.07	1.38	0	0	Akron
285	S Arlington St (SR 764)	E Wilbeth Rd (SR 764)	19,508	23	1.08	1.35	0	0	Akron
286	Canton Rd (SR 91)	Wedgewood Rd	17,892	21	1.07	1.38	0	1	Akron
287	Massillon Rd (SR 241)	Krumroy Rd	13,305	16	1.10	1.50	0	0	Summit Co-Springfield Twp
288	S Hawkins Ave	W Exchange St	14,925	18	1.10	1.44	0	0	Akron
289	Horning Rd	Loop Rd	3,825	11	2.63	1.18	0	0	Kent
290	N Chestnut St	Highland Ave	9,050	11	1.11	1.73	0	0	Ravenna
291	Ridgewood Rd	Schocalog Rd	7,390	10	1.24	1.60	0	0	Akron
292	Wooster Rd N	Norton Ave	17,240	20	1.06	1.40	0	0	Barberton
293	E Market St (SR 18)	Fountain St	15,260	18	1.08	1.44	0	0	Akron
293	E Waterloo Rd	Brown St	17,360	20	1.05	1.40	0	0	Akron
295	Front St (SR 59)	Bailey Rd	20,266	25	1.13	1.16	0	0	Cuyahoga Falls
296	Eastern Rd	Rittman Rd	8,300	10	1.10	1.80	0	0	Chippewa Twp/Wadsworth Twp
297	Oakwood Dr	4th St/Thomas Ct	7,715	13	1.54	1.31	0	0	Cuyahoga Falls
298	Glenwood Dr	Liberty Rd	15,865	20	1.15	1.30	0	0	Twinsburg
299	S Main St	Thornton St	18,000	23	1.17	1.17	0	0	Akron
300	E Turkeyfoot Lake Rd (SR 619)	Pickle Rd	13,494	19	1.29	1.21	0	0	Green
301	W Cedar St (SR 261)	Locust St (SR 261)	12,591	19	1.38	1.00	0	0	Akron
302	E Wilbeth Rd (SR 764)	Hammel St	11,164	13	1.06	1.62	0	0	Akron
303	E Streetsboro Rd (SR 303)	Stow Rd	15,667	18	1.05	1.44	0	0	Hudson
304	Portage Trail	Northampton Rd	21,735	25	1.05	1.24	0	0	Cuyahoga Falls
305	Diagonal Rd	Superior Ave	9,140	12	1.20	1.50	0	1	Akron
306	E Tallmadge Ave (SR 261)	Dayton St	18,305	20	1.00	1.40	0	0	Akron
307	Darrow Rd (SR 91)	Beech Rd	10,417	12	1.05	1.67	0	0	Stow
308	White Pond Dr	Mull Ave	12,938	18	1.27	1.22	0	0	Akron
309	Portage Trail	SR 8 Ramps	15,390	20	1.19	1.20	0	0	Cuyahoga Falls
310	Bartges St	Rhodes Ave	5,500	11	1.83	1.18	0	0	Akron
311	S Main St	Warner Rd	11,390	14	1.12	1.43	0	0	Summit Co-Coventry Twp
312	W Exchange St (SR 261)	W Bowyer St	12,394	15	1.11	1.40	0	1	Akron
313	SR 585	Fulton Rd (CR 27)	8,850	13	1.34	1.31	0	0	Wayne Co-Milton Twp
314	Smith Rd	Riverview Rd	14,690	19	1.18	1.21	0	0	Akron
315	Vernon Odom Blvd (SR 261)	I-77 SB Ramps	17,173	21	1.12	1.19	0	1	Akron
316	Mogadore Rd	I-76 SB Ramp	9,800	14	1.30	1.29	0	0	Portage Co-Brimfield Twp
317	Wooster Rd W	Hudson Run Rd	10,780	15	1.27	1.27	0	0	Barberton
318	S Hawkins Ave	Diagonal Rd	14,950	19	1.16	1.21	0	0	Akron
319	Grant St	E Thornton St	8,990	13	1.32	1.31	0	0	Akron
320	Barlow Rd	Stow Rd	7,223	13	1.64	1.00	0	0	Hudson
321	Bailey Rd	Munroe Falls Ave	19,250	21	1.00	1.29	0	0	Cuyahoga Falls
322	Seasons Rd	Wyoga Lake Rd	11,805	14	1.08	1.43	0	0	Cuyahoga Falls

Table 2
HIGH CRASH INTERSECTIONS
 RANKED BY COMPOSITE SCORE
 2017-2019

Rank	Street	Intersecting Street(s)	Approach Ave. Daily Traffic	Total Crashes	Crash Rate	Severity Index	Bike Related	Ped Related	Location
323	Kelly Ave	3rd Ave	11,835	14	1.08	1.43	1	0	Akron
324	Haymaker Pkwy (SR 59)	E Main St (SR 59)/Willow St	15,845	18	1.04	1.33	1	1	Kent
325	Grant St	E Voris St	9,445	13	1.26	1.31	0	1	Akron
326	3rd Ave	Fuller St	6,347	11	1.58	1.18	0	0	Akron
327	Boston Mills Rd	SR 8 Ramps	11,341	13	1.05	1.46	0	0	Boston Heights
328	East Ave	Morse Rd	11,435	13	1.04	1.46	0	0	Akron
329	E Exchange St	Goodkirk Rd	8,340	13	1.42	1.15	0	0	Akron
330	Portage Lakes Dr	N Turkeyfoot Rd	8,900	12	1.23	1.33	0	0	Summit Co-Coventry Twp
331	E Aurora Rd (SR 82)	N Bedford Rd/Valley View Rd	17,974	20	1.02	1.20	0	0	Macedonia
332	Wolf Ledges Pkwy	E Thornton St	12,145	16	1.20	1.13	0	0	Akron
333	Norton Ave	Barber Rd/4th St NW	14,530	17	1.07	1.24	0	0	Barberton
334	S High St (SR 261)	University Ave	6,782	11	1.48	1.00	0	0	Akron
335	E Tallmadge Ave (SR 261)	Oxford Ave	13,580	16	1.08	1.25	0	1	Akron
336	Grant St	Archwood Ave	8,875	11	1.13	1.36	1	1	Akron
337	Archwood Ave	Hammel St	9,000	11	1.12	1.36	0	0	Akron
338	Lakeshore Blvd	W South St/Boulevard St	9,780	13	1.21	1.15	0	0	Akron
339	Brittain Rd	Independence Ave	12,770	14	1.00	1.29	0	0	Akron
340	Seasons Rd	SR 8 SB Ramps	10,407	13	1.14	1.15	0	0	Stow
341	W Exchange St	Elmdale Ave	11,825	13	1.00	1.31	0	0	Akron
342	Gougler Ave (SR 43)	Park Ave	7,490	10	1.22	1.20	0	0	Kent
343	Tallmadge Rd	Cascades Blvd	11,615	14	1.10	1.14	0	0	Portage Co-Brimfield Twp
344	N Portage Path	Garman Rd	14,648	16	1.00	1.13	0	0	Akron
345	Barber Rd	I-76 Ramps	13,318	15	1.03	1.13	0	0	Norton
346	Wooster Rd N	W Lake Ave	9,265	12	1.18	1.00	0	0	Barberton
347	Northfield Rd (SR 8)	Olde Eight Rd/Meadow Ln	10,750	13	1.10	1.00	0	0	Northfield
348	East Ave	Clearview Ave	9,120	11	1.10	1.18	0	0	Akron
349	E Market St (SR 18)	Innovation Way (SR 241)	11,721	13	1.01	1.15	0	0	Akron
350	Cuyahoga Falls Ave	N Howard St	10,970	12	1.00	1.17	0	0	Akron

Red denotes that the intersection had at least one fatality



Map 2
TOP 50
HIGH CRASH INTERSECTIONS
2017-2019

● High Crash Intersections

Section 2: Bicycle and Pedestrian Crashes

Overview

As biking and walking becomes a more popular and viable means of transportation, there is growing concern about the safety of bicycle riders and pedestrians. Determining how and where these incidents occur can help plan for future bicycle lanes, sidewalks, lighting, and educational outreach. Bicycle and pedestrian-related crashes tend to happen more randomly and usually do not have the characteristic of being concentrated at specific locations like other vehicular crashes. Because of this it is sometimes more practical to make improvements to a corridor rather than a specific location.

The Ohio Revised Code considers a bicycle a slow moving vehicle and generally speaking is subject to the same laws and responsibilities as a motor vehicle. Bicycle riders can be issued a citation if they are guilty of breaking traffic laws. Local governments have the ability to make some of their own rules and laws which may be inconsistent between communities.

Education is an important tool to help curb bicycle and pedestrian-related crashes. Appendix B has bicycle and pedestrian safety tips to help with this education. Many bicycle riders and pedestrians, especially those under the driving age, may not be aware of the rules that they must observe. Appendix C shows School Bus Stopping Laws as this can impact many pedestrians and drivers.

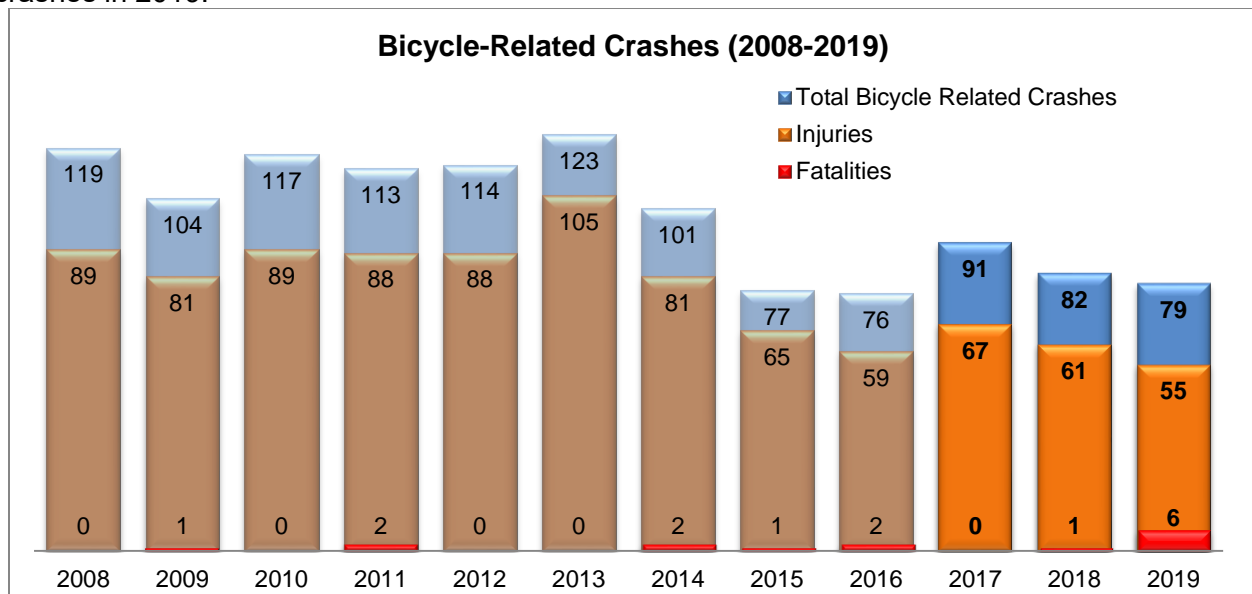
Bicycle and pedestrian-related crashes have a high percentage of injuries.

- Out of the 252 bicycle-related crashes that occurred between 2017 and 2019, 183 of them or **73%** resulted in an injury and seven of them in a fatality.
- There were 466 pedestrian-related crashes in this same time period with 385 or **83%** of them resulting in an injury and 24 of them in a fatality. Pedestrians accounted for over 19% of all fatalities that occurred between 2017 and 2019.

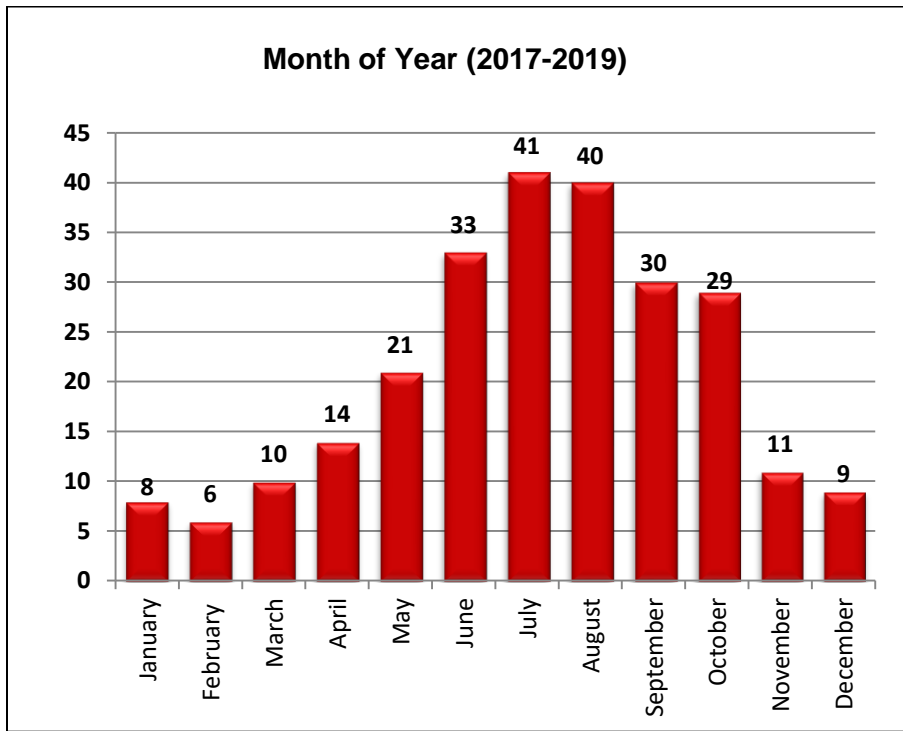
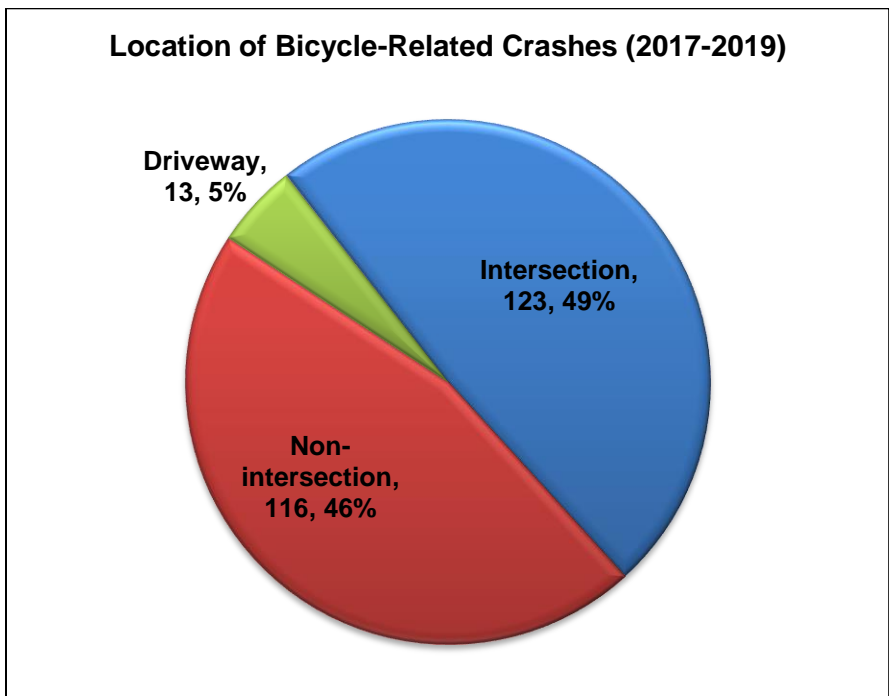
By comparison about 23% of all vehicular crashes for the same three year period resulted in an injury.

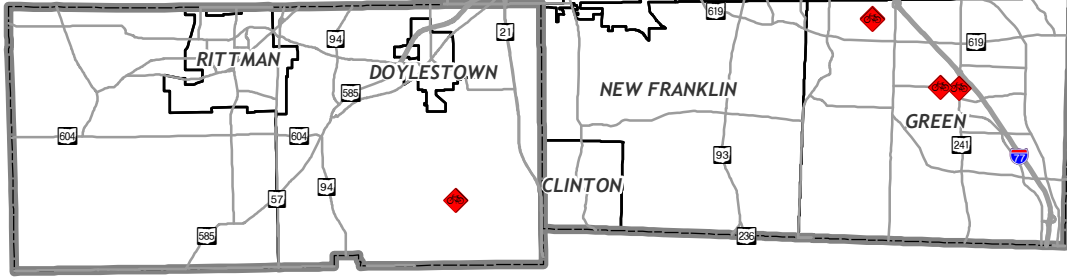
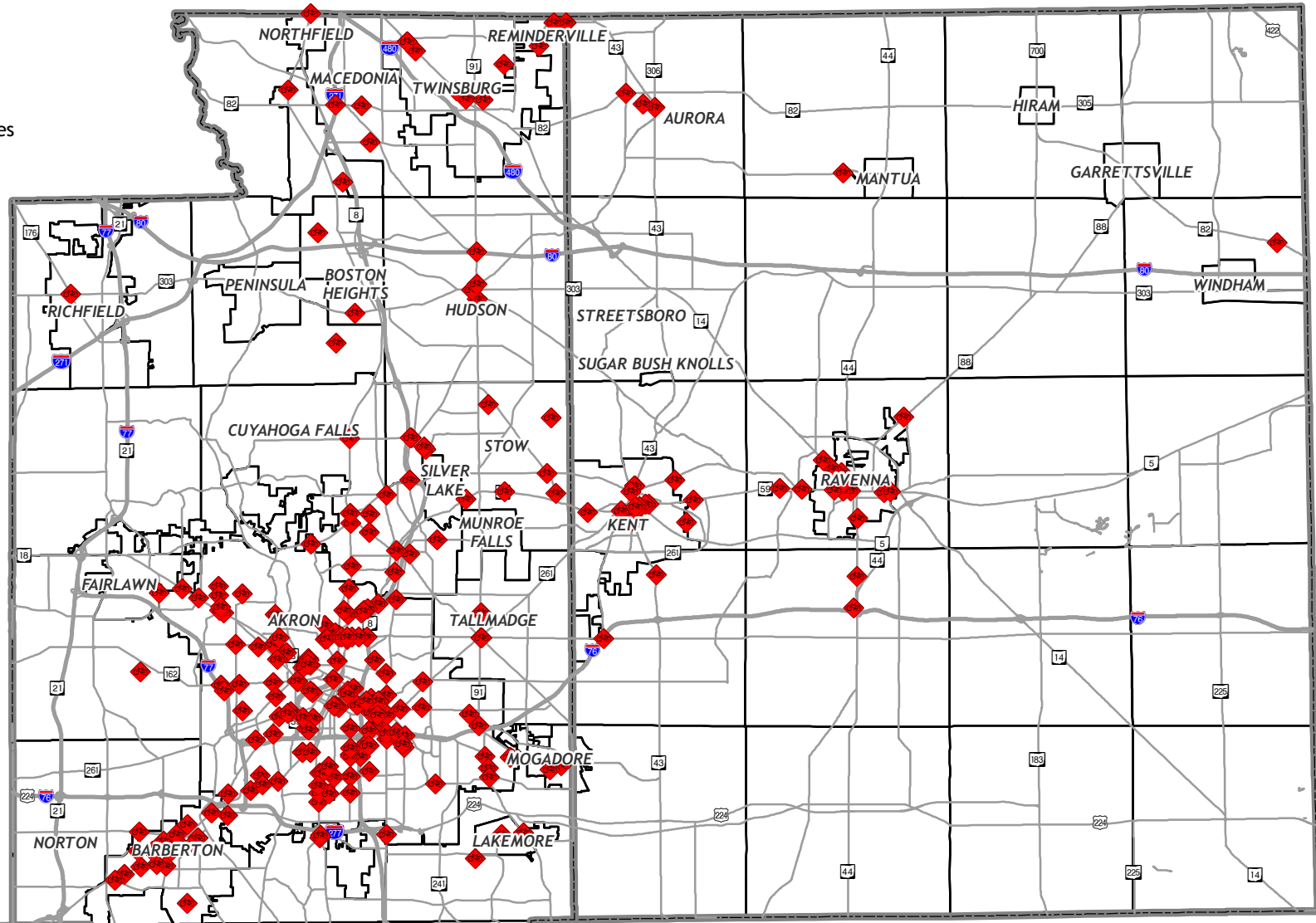
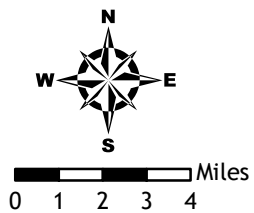
Bicycle-Related Crashes

In 2019, total bicycle-related crashes decreased by 3 and injuries decreased by 6. There were 6 fatal bicycle related crashes in 2019.



Most bicycle-related crashes occur at intersections. Also, most crashes occur in summer and early fall when bicycle riding conditions are most favorable. Many bicycle riders, especially younger ones, do not obey stop signs and traffic signals. Often a vehicle does not see a bicycle because of their narrow profile and turns into it or pulls in front of it. Many times a driver is not expecting a bicycle in the crosswalk or misjudges its approach speed. If a bicycle rider is biking against traffic a driver may not look that direction when turning into or pulling out of another street or driveway. Map 3 shows where the bicycle-related crashes occurred in the AMATS area.

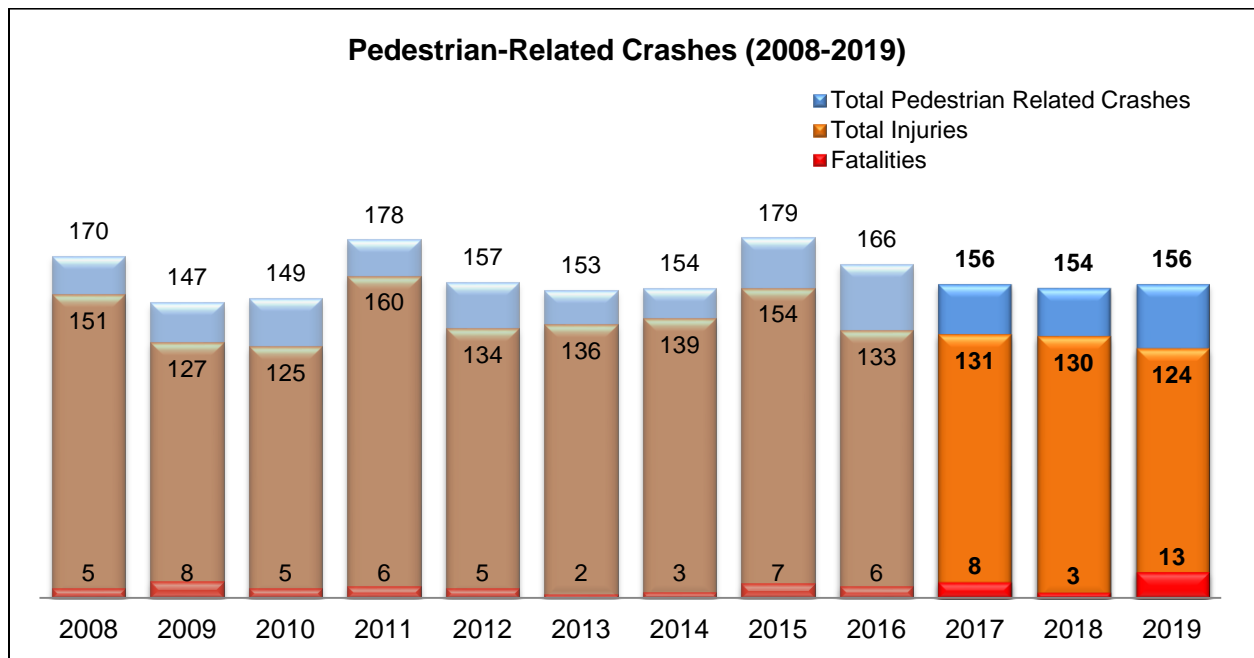




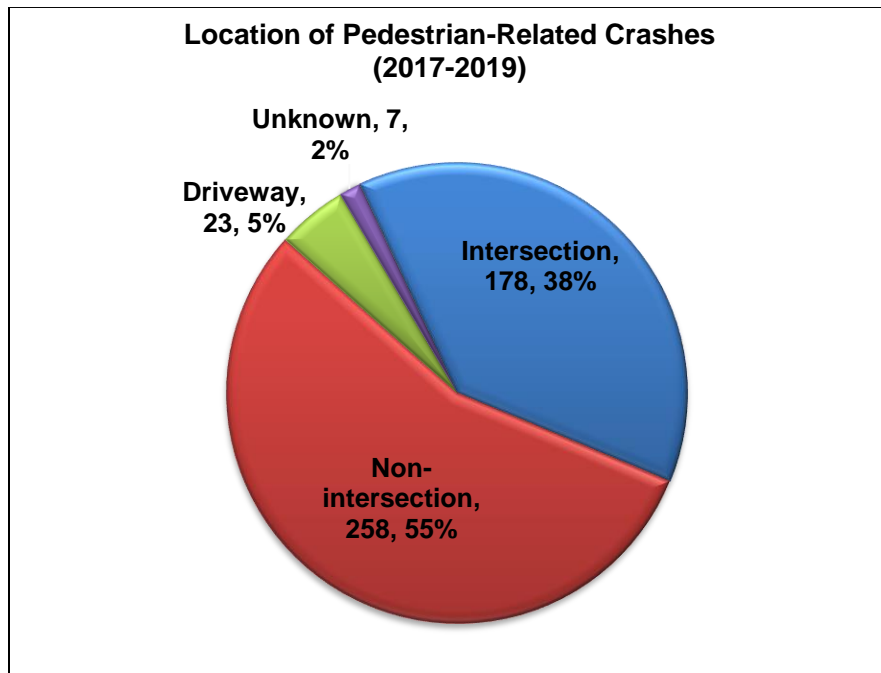
Map 3
BICYCLE CRASHES
IN THE AMATS AREA
2017-2019
 ◆ Bicycle Crashes

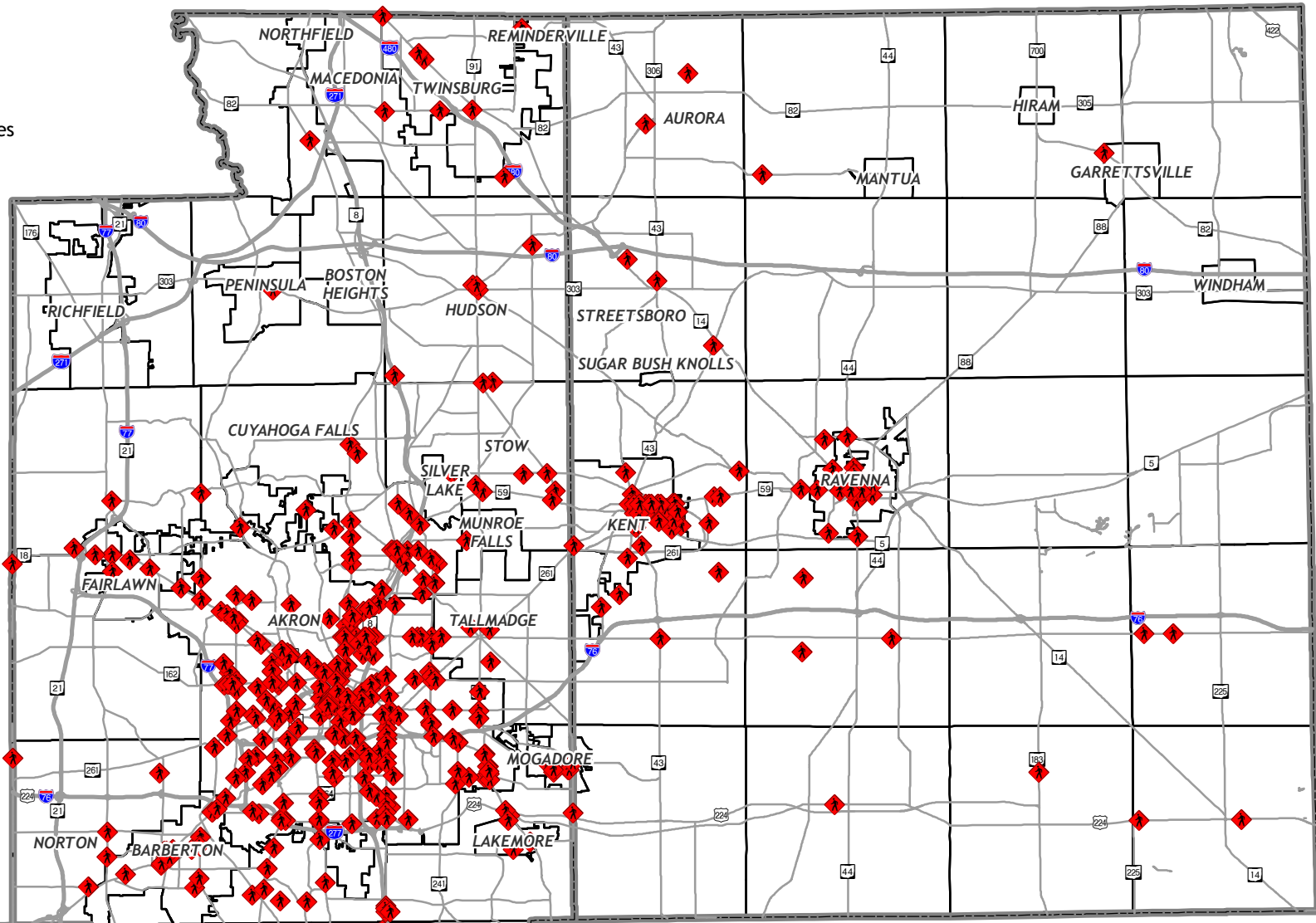
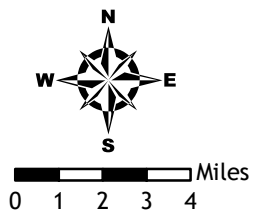
Pedestrian-Related Crashes

The number of pedestrian-related crashes, injuries, and fatalities decreased slightly in 2019. Between 2017 and 2019 there were 466 pedestrian-related crashes with 385 injuries and 24 fatalities. The following graph shows pedestrian-related crashes in the AMATS area since 2008.



Pedestrian crashes occur most often at non-intersection locations. In many crashes the pedestrian darts out in front of the vehicle. Many intersection-related pedestrian crashes occurred when a vehicle was making a turn or a pedestrian was crossing the street against the signal. Map 4 shows where pedestrian-related crashes occurred in the AMATS area.

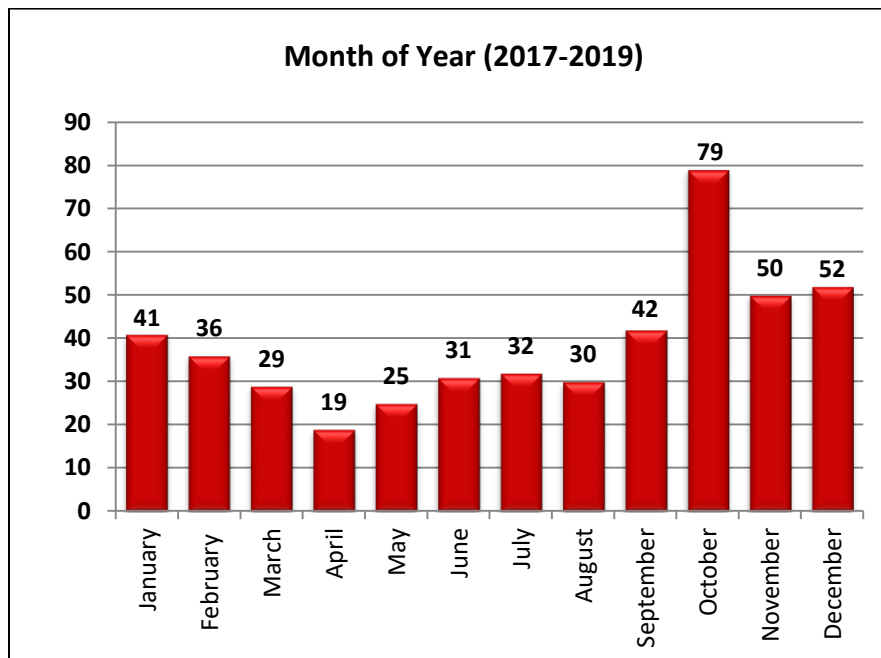




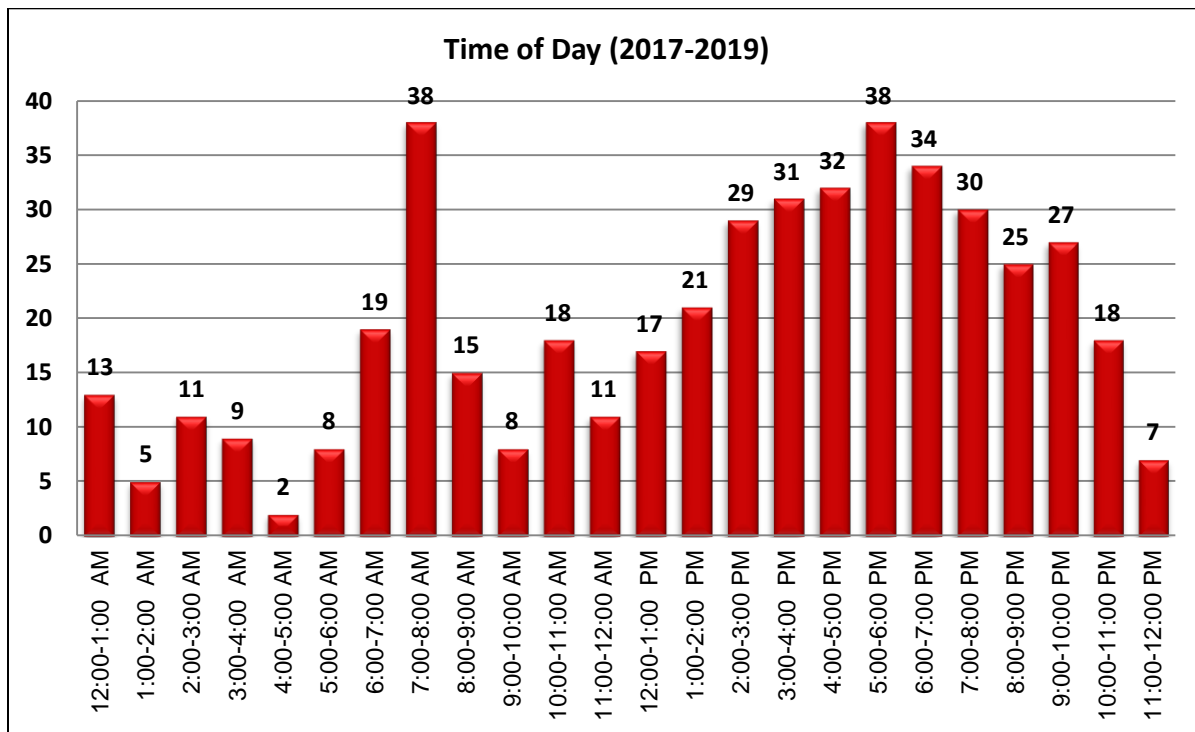
Map 4
PEDESTRIAN CRASHES
IN THE AMATS AREA
2017-2019

◆ Pedestrian Crashes

The following graph shows the month that pedestrian-related crashes occurred. October is traditionally the month with the most incidents. One might think that most of these incidents occur around Halloween; however, after examining the data closer look we found that they are spread out throughout the month. One speculation about why October has the most incidents is the decreasing amount of daylight while the weather is still reasonably nice. Pedestrians are still active but are harder to see in darkness even if streetlights are present.



There is a spike in morning pedestrian-related crashes from 7-8 a.m. This is a time period when many pedestrians are commuting to work or school. Pedestrian crashes peak again in the afternoon and evening hours as seen in the table below.



Section 3: Safety Performance Measures and Targets

Safety performance management is part of the overall Transportation Performance Management (TPM) program. The Federal Highway Administration (FHWA) is requiring state DOTs and agencies like AMATS to develop a strategic approach that uses system information to make investment and policy decisions in order to achieve national performance goals.

Recent federal legislation requires ODOT and AMATS to establish performance measures and set targets that demonstrate fatal and serious injury reductions on all public roads. The required performance measures for safety are:

- Number of fatalities
- Fatality rate
- Number of serious injuries
- Serious injury rate
- Number of non-motorized fatalities and serious injuries

AMATS is required to establish safety performance measures. There are two options available for satisfying this requirement: commit to a quantifiable target for each measure within the metropolitan area, or approve of ODOT's statewide targets and agree to plan and program projects so that they contribute toward the accomplishment of those goals. AMATS is committed to support the goals set forth by ODOT for the entire state, rather than develop separate targets and goals for our area.

After reviewing historical crash trends, external factors and through consultation with the state's Metropolitan Planning Organizations (MPOs), ODOT is recommending a 2 percent annual reduction target across all five safety categories. A state is considered to have met or made significant progress if at least four of the five targets are better than the baseline.

In accordance with federal regulations, AMATS used a five-year average to calculate the initial safety targets in 2015. These averages will become the benchmark to which all future calculations will be compared. All future values will also be calculated using five years of data. This five-year rolling average is used to smooth out short term year-to-year fluctuations in data.

The table below shows the calculation of the AMATS rolling averages for the five safety performance measures. The 2015 averages are the benchmark values that the 2019 values are compared to. In three out of the five safety performance measures AMATS has far exceeded the ODOT goal of reducing each category by two percent, when compared to 2015 averages.

Target	2015 5 Year Ave	2016 5 Year Ave	2017 5 Year Ave	2018 5 Year Ave	2019 5 Year Ave	Percent Change
Number of Fatalities	46	46	49	48	48	6%
Fatalities Per 100 Million VMT	0.60	0.61	0.64	0.63	0.64	7%
Number of Serious Injuries	590	574	529	470	431	-27%
Serious Injuries Per 100 MVMT	7.79	7.58	6.94	6.20	5.73	-27%
Number of Non-motorized Fatalities and Serious Injuries	57.4	54.4	51.4	50.8	48.8	-15%

APPENDIX A – Crash Formulas

Roadway Sections

$$\text{Crashes Per Mile Per Year} = \frac{\text{(3 year crash total)}}{\text{(3 years)(section length)}} = \text{crashes per mile per year}$$

$$\begin{aligned} \text{Crash Rate} &= \frac{\text{(3 year crash total) } 1,000,000}{\text{(3 years)(ADT)(365 days/year)(section length)}} \\ &= \text{crashes per million vehicle miles traveled} \end{aligned}$$

Intersections

$$\begin{aligned} \text{Crash Rate} &= \frac{\text{(3 year crash total) } 1,000,000}{\text{(3 years)(intersection approach volume/day)(365 days/year)}} \\ &= \text{crashes per million approach vehicles} \end{aligned}$$

Roadway Sections and Intersections

$$\text{Severity Index} = \frac{12 \text{ (fatal crashes)} + 3 \text{ (injury crashes)} + 1 \text{ (property damage crashes)}}{\text{(total crashes)}}$$

Composite Score (Lowest composite score = highest ranked location)

Roadway Section Composite Score =

$$\text{(Crashes Per Mile Per Year Rank) } 40\% + \text{(Crash Rate Rank) } 30\% + \text{(Severity Index Rank) } 30\%$$

Intersection Composite Score =

$$\text{(Total Crashes Rank) } 40\% + \text{(Crash Rate Rank) } 30\% + \text{(Severity Index Rank) } 30\%$$