

TECHNICAL MEMORANDUM

TRAFFIC CRASHES 2015-2017

December 2018

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

1	Section 1: All Crashes	
1	Overview	
1	Trends	
3	Methodology	
3	High Crash Sections	
4	High Crash Intersections	
4	High Crash Freeway Locations	
5	Section 2: Bicycle and Pedestrian Crashes	
5	Overview	
5	Bicycle Related Crashes	
7	Pedestrian Related Crashes	
8	Section 3: Safety Performance Measures and Targets	
9	Section 4: Summary	
10	Section 5: Tables and Maps	
10	Table 5-1	High Crash Roadway Sections
14	Map 5-1	Top 50 High Crash Sections 2015-2017
15	Table 5-2	High Crash Intersections
23	Map 5-2	Top 50 High Crash Intersections 2015-2017
24	Map 5-3	Statewide Top 50 High Crash Freeway Sections in the AMATS Area 2015-2017
25	Map 5-4	Bicycle Crashes in the AMATS Area 2015-2017
26	Map 5-5	Pedestrian Crashes in the AMATS Area 2015-2017
27	Appendix A: Crash Formulas	
28	Appendix B: Ages of Licensed Drivers and Drivers at Fault	
29	Appendix C: Bicycle and Pedestrian Safety Tips	
30	Appendix D: School Bus Stopping Laws	

Traffic Crashes

2015 - 2017

Section 1: All Crashes

Overview

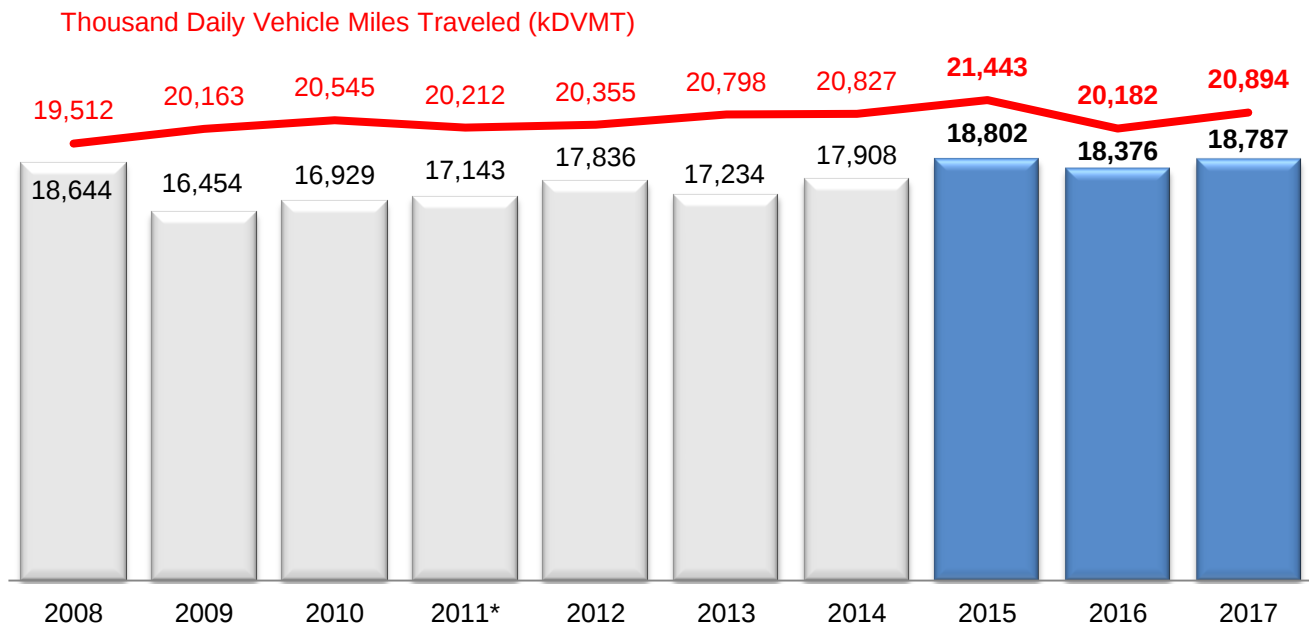
The 2015-2017 Crash Report was prepared by reviewing 58,502 crash records obtained from the Ohio Department of Transportation (ODOT). Animal crashes and construction zone crashes were removed and not included in the analysis since they do not relate to the characteristics of the roadway. The data is then imported in into GIS and plotted. It is carefully checked for location accuracy and then categorized as segment or intersection crashes. Roadway segment and intersection locations are further analyzed and then ranked. Freeway crashes are analyzed by the Ohio Department of Transportation and only the locations in the AMATS area that ranked in the top 50 statewide are shown in this report.

Trends

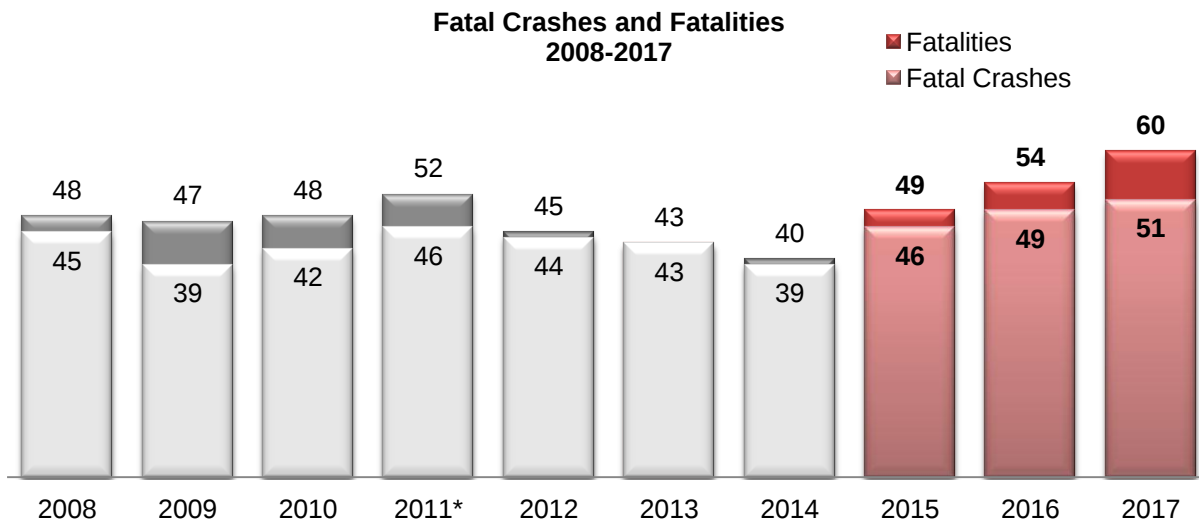
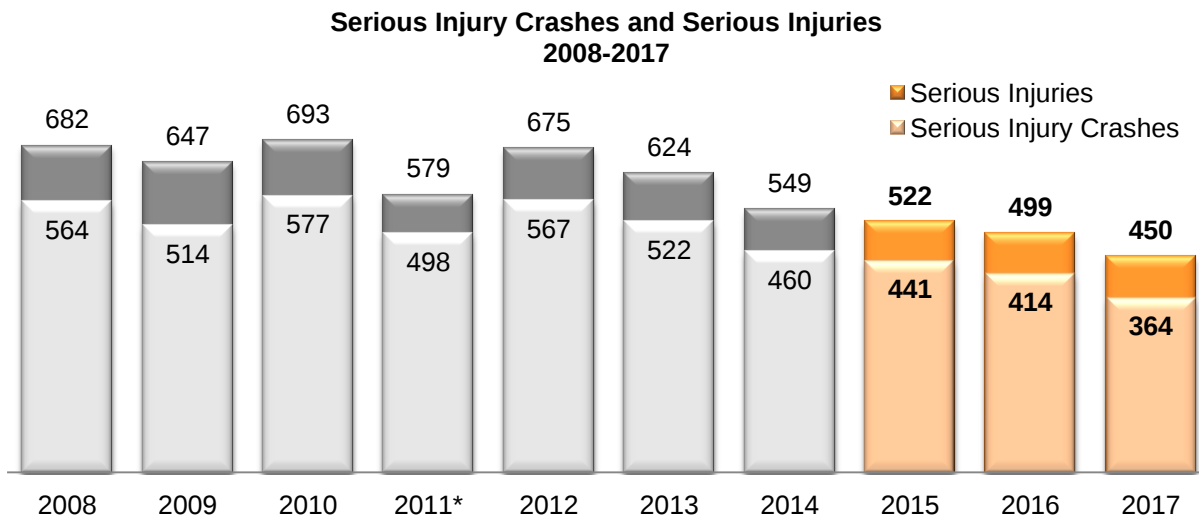
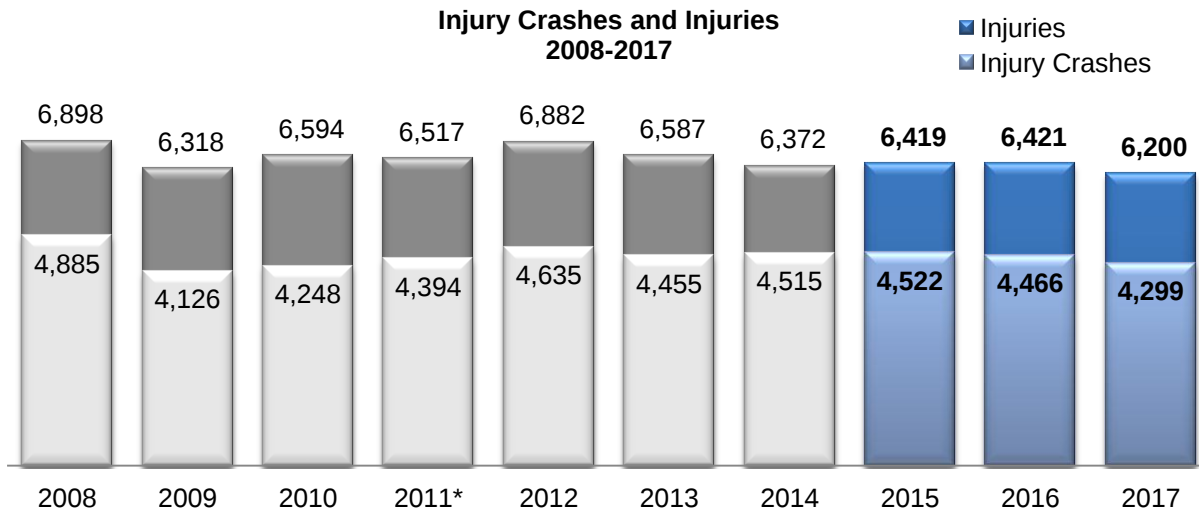
In 2017 the overall number of crashes in the AMATS area increased by 411. This is a 2.2% increase from 2016. Injury crashes decreased by 167 or 3.7% and fatal crashes were up slightly by 2 or 4%.

The following graph shows the number of total crashes in the AMATS area between 2008 and 2017. 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 2017 kDVMT increased by 3.5%.

**Crashes and Thousand Daily Vehicle Miles Traveled
2008-2017**



The following graphs show the number of injury, serious injury and fatal crashes and the resulting injuries, serious injuries and fatalities between 2008 and 2017.



Methodology

The 2015-2017 Crash Report used Geographical Information System (GIS) coordinates to plot crashes within predefined intersections and segments. The coordinates of each crash is used along with the crash data. Each intersection and segment is assigned a unique identification number. The final step in GIS is to sum up all the crashes that occur within each unique intersection and segment.

Although this process sounds relatively simple it requires a lot of quality control to make sure crashes are plotted correctly. Sometimes the coordinates are not correct or missing and crashes have to be 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 segment or intersection related. Crashes that occurred where a segment and intersection boundary overlapped fell into this category. Not all crashes that occur near an intersection are classified as intersection related. An example would be a vehicle backing out of a driveway and into another vehicle. Most of the time the police officer's crash report was reviewed to gain a better understanding of the crash. The final decision was based on the number of vehicles involved and the nature of the crash.

Once the analysis in GIS was done a list of high crash intersections and segments was 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 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 formula is given in the Appendix.

- 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 happen 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 is given in the Appendix.

Finally a composite score is calculated based on how a location scores according to number of crashes, crash rate and severity index. This score defines the final rank of the location.

High Crash Sections

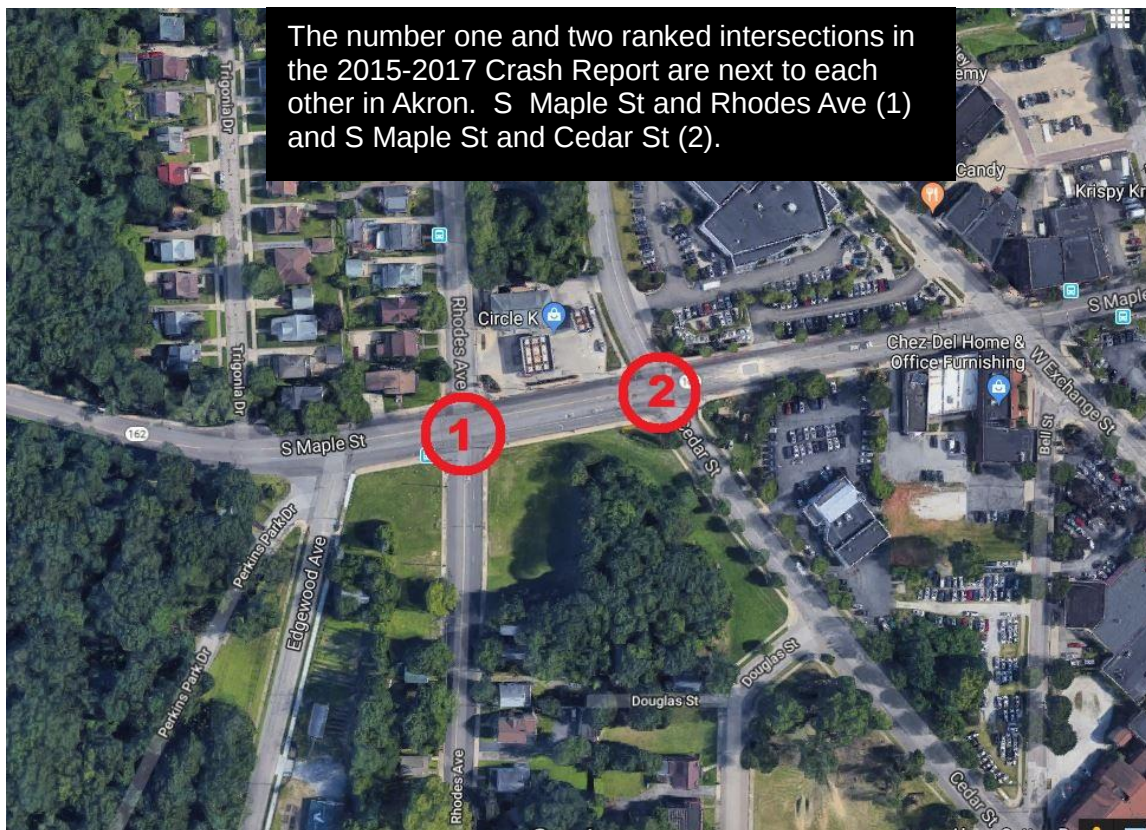
A section is defined as a length of roadway between two logical termini such as an intersection with another roadway. The length of a section is usually between 0.3 miles in an urban area to a maximum of 4.0 miles in a rural area. All roads in the AMATS area were considered, including those that are not federally classified.

- AMATS identified 179 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 5-1 lists the 179 high crash roadway sections ranked by composite score. Map 5-1 shows the top 50 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. All intersections in the AMATS area were considered, including those of roads that are not federally classified.

- AMATS identified 316 intersections that have a minimum of 10 crashes and a crash rate of one or more over the three year period.
- Table 5-2 lists the 316 high crash intersections ranked by composite score. Map 5-2 shows the top 50 high crash intersections.



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 recently released 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.

- Three locations in the AMATS area were on the top 50 statewide high crash *rural* freeway list.
- Seven locations were on the top 50 statewide high crash *urban* freeway list.

All ten high crash freeway locations in the AMATS area are shown on Map 5-3.

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 bike riders and pedestrians. Determining how and where these incidents occur can help plan for future bike lanes, sidewalks, lighting, and educational outreach. Bike 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 system wide or to a corridor rather than to 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. Bike 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 bike and pedestrian related crashes. Many bike riders and pedestrians, especially those under the driving age, may not be aware of the rules that they must observe.

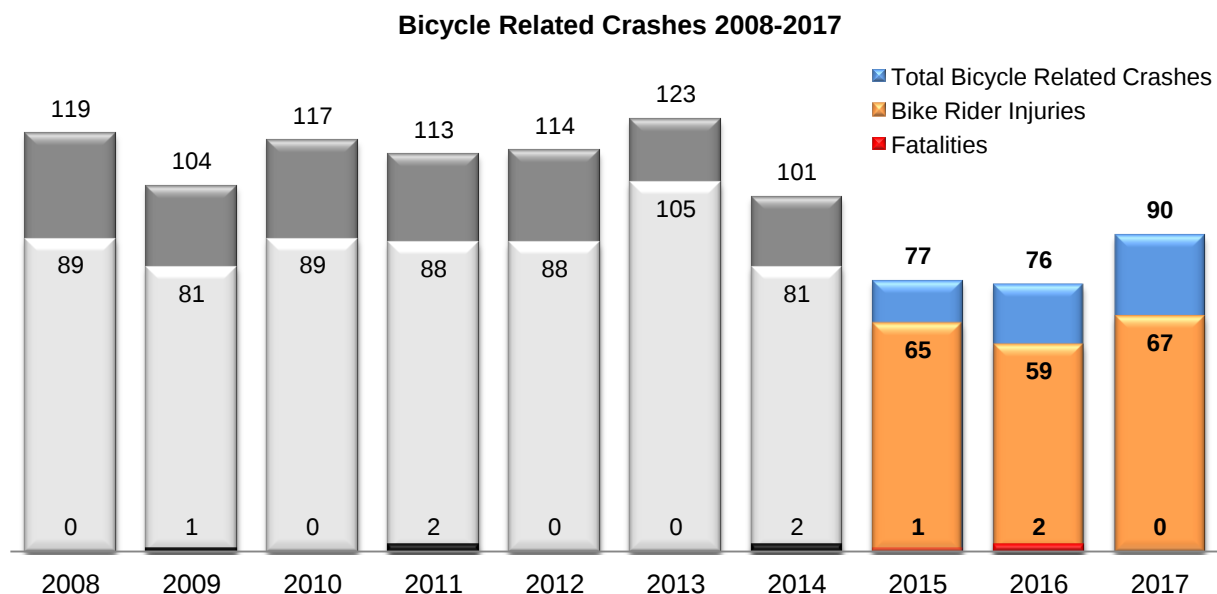
Bike and pedestrian related crashes have a high percentage of injuries.

- Out of the 242 bicycle related crashes that occurred between 2015 and 2017, 191 of them or **79%** resulted in an injury and three of them in a fatality. There no fatal bike crashes in 2017.
- There were 501 pedestrian related crashes in this same time period with 418 or **83%** of them resulting in an injury and 21 of them in a fatality.

By comparison about 24% of all vehicular crashes for the same three year period resulted in an injury.

Bicycle Related Crashes

In 2017 bicycle related crashes increased by 14 and injuries by 8. There were no fatal bicycle related crashes in 2017.



Most bicycle related crashes occur at intersections (66%). 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 5-4 shows where the bicycle related crashes occurred in the AMATS area. The diagrams below show the six most common bicycle related crashes in the AMATS area.

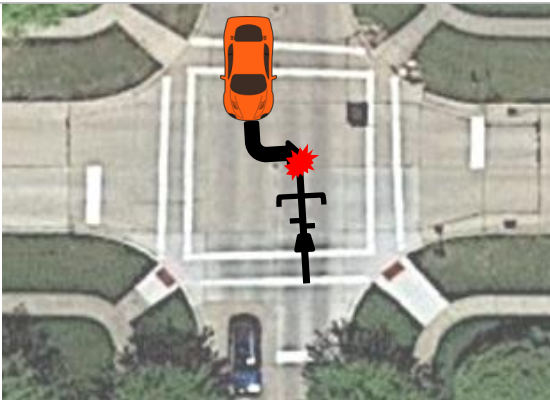
Intersection-Vehicle hit bike - 30



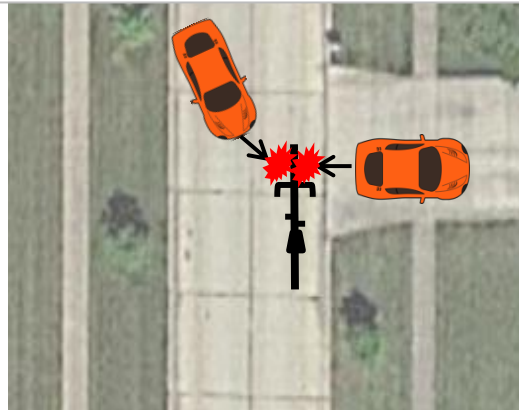
Intersection-Bike hit vehicle - 22



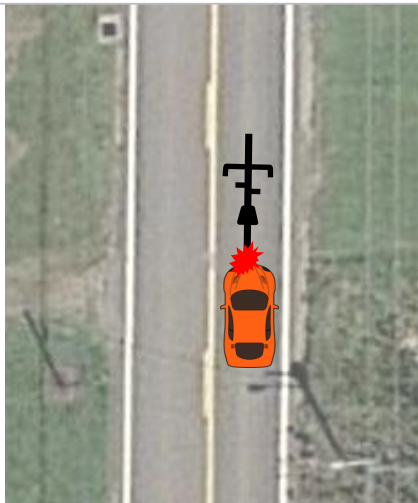
Intersection-Vehicle turned into path of bike - opposite direction - 21



Driveway-Vehicle entering/exiting drive hit bike - 19



Segment-Vehicle hit bike from behind - 17

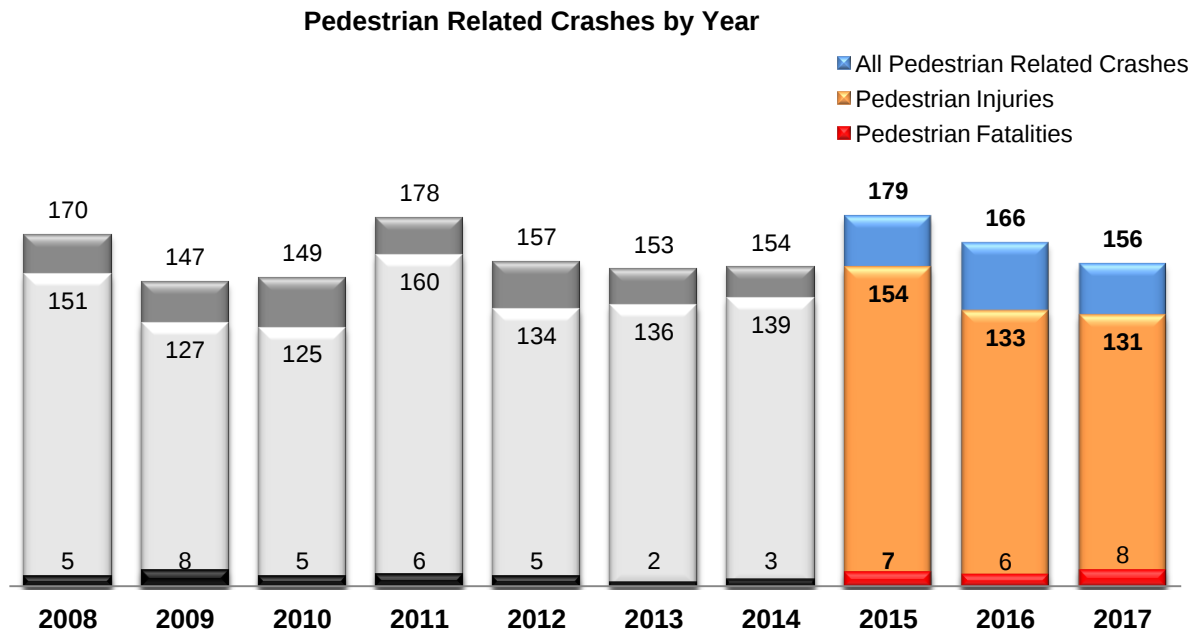


Intersection-Bike hit vehicle in crosswalk - 15



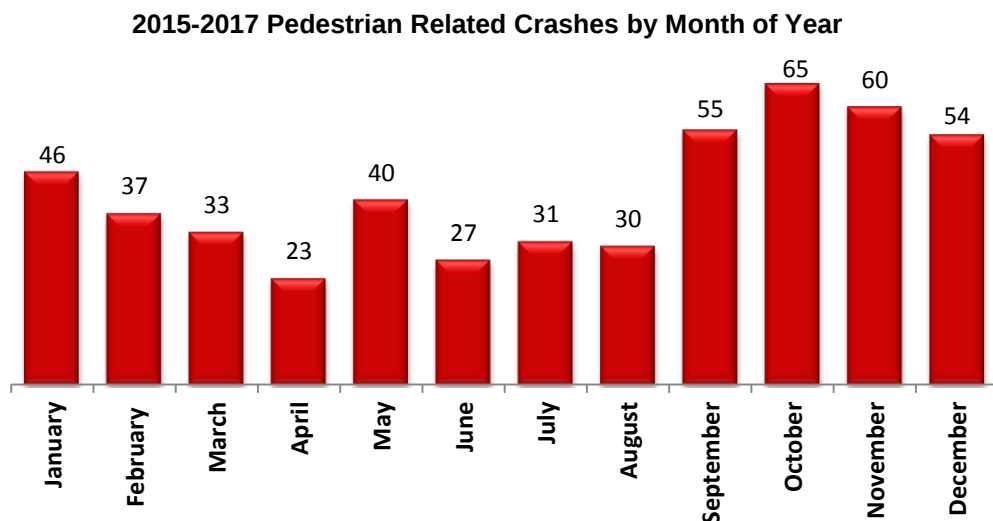
Pedestrian Related Crashes

The number of pedestrian related crashes and injuries decreased in 2017. Unfortunately there were two additional fatalities in 2017. Between 2015 and 2017 there were 501 pedestrian related crashes with 418 injuries and 21 fatalities. The following graph shows pedestrian related crashes in the AMATS area since 2007



Pedestrian crashes occur almost evenly at intersections and mid-block. Pedestrians are at fault in most mid-block crashes while vehicles are at fault in most intersection crashes. 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 5-5 shows where pedestrian related crashes occurred in the AMATS area.

The graph below shows the month that pedestrian related crashes occur. October is traditionally the month with the most incidents. One might think that most of these incidents occur around Halloween. However after taking a closer look at the data 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 very hard to see in darkness even if streetlights are present.



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 1 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 2017 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 one percent.

Year	2013	2014	2015	2016	2017	2015 5 Year Ave	2016 5 Year Ave	2017 5 Year Ave	Percent Change
Number of Fatalities	42	40	49	54	60	46	46	49	7%
1000 Daily VMT (from ODOT)	20,798.21	20,826.53	21,701.50	20,181.96	20,894.07				
100 Million VMT	75.91	76.02	79.21	73.66	76.26				
Fatalities Per 100 Million VMT	0.55	0.53	0.62	0.73	0.79	0.60	0.61	0.64	7%
Number of Serious Injuries	624	549	522	499	450	590	574	529	-10%
1000 Daily VMT (from ODOT)	20,798.21	20,826.53	21,701.50	20,181.96	20,894.07				
100 Million VMT	75.91	76.02	79.21	73.66	76.26				
Serious Injuries Per 100 MVMT	8.22	7.22	6.59	6.77	5.90	7.79	7.58	6.94	-11%
Number of Non-motorized Fatalities and Serious Injuries	54	57	54	46	46	57.4	54.4	51.4	-10%

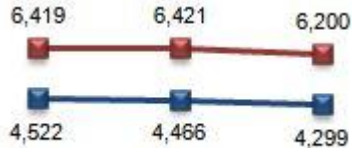
Section 4: Summary

AMATS is committed to following a planning process that recognizes the importance of safety. This is accomplished by incorporating the results of safety studies into the development of transportation recommendations for the Regional Transportation Plan and used as evaluation criteria for selecting projects for funding. The following bullet points summarize selected data for 2015, 2016 and 2017.

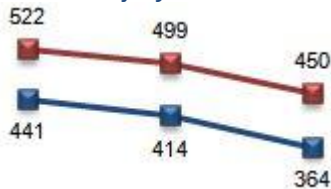
- Total crashes remained nearly same.



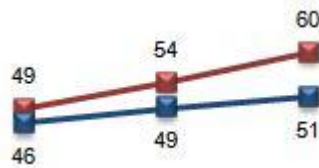
- Injury crashes and injuries decreased slightly.



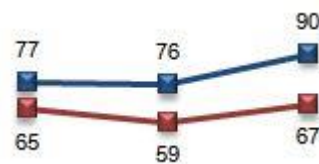
- Serious injury crashes and serious injuries decreased.



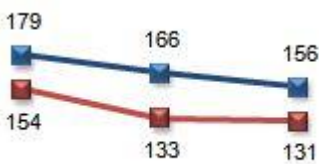
- Fatal crashes and fatalities continue to increase.



- Bicycle related crashes and bike rider injuries increased.



- Pedestrian related crashes and pedestrian injuries declined but fatalities were up by two (not shown)



- Safety performance measures decreased (improved) in three categories.
- The locations in this technical memorandum may be used as the first step in the process of applying for federal Highway Safety Program funding through ODOT.
- Safety applications are due in the ODOT Central Office by September 30 and April 30. They should be submitted to the district office at least six weeks before.

Table 5-1
HIGH CRASH ROADWAY SECTIONS
RANKED BY COMPOSITE SCORE
2015-2017

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	E Main St (SR 59)	Willow St	Luther Av	0.41	21,790	93	75	9.44	1.54	1		Kent
2	SR 44	Tallmadge Rd (CR 18)	SR 5 (NB off from I-76)	0.66	14,780	62	31	5.82	1.65			Portage Co-Rootstown Twp
3	W Market St (SR 18)	Cleveland-Massillon Rd	Smith Rd	0.57	26,220	95	56	5.81	1.53		1	Fairlawn
4	M.L. King Blvd (SR 59)	W Market St Bridge (SR 18)	N Broadway St	0.35	18,385	31	29	4.39	1.71			Akron
5	Copley Rd (SR 162)	St Micheals Ave	S Hawkins Ave	0.49	12,620	37	25	5.45	1.70			Akron
6	E Aurora Rd (SR 82)	Olde Eight Rd	SR 8	0.82	16,700	76	31	5.09	1.55			Macedonia
7	S Cleveland-Massillon Rd	I-77	Rosemont Blvd/Elgin Dr	0.53	22,360	49	31	3.78	1.69			Fairlawn
8	Ghent Rd	W Market St (SR 18)	Smith Rd	0.38	10,120	32	28	7.55	1.50			Fairlawn
9	S Prospect St	Ravenna SCL	Lake Ave	0.18	10,810	10	19	4.73	2.20			Ravenna
10	W Exchange St	Rhodes Ave	Dart Ave	0.54	8,770	42	26	8.03	1.48			Akron
11	Brittain Rd	Eastwood Ave	E Tallmadge Ave (SR 261)	1.19	12,757	72	20	4.35	1.69			Akron
12	Medina Rd (SR 18)		Cleveland-Massillon Rd (CR 17)	0.69	37,890	127	61	4.41	1.44			Summit Co-Copley Twp
13	Canton Rd (CR 66)	Sanitarium Rd (CR 136)	Waterloo Rd (US 224)	1.01	20,415	83	28	3.69	1.58			Summit Co-Springfield Twp
14	Arlington Rd	Turkeyfoot Lake Rd (SR 619)	Green North Corp Line	0.95	20,305	146	51	6.91	1.36			Green
15	W Market St (SR 18)	Ghent Rd	Miller Rd	0.29	27,380	53	60	6.03	1.34			Fairlawn
16	Massillon Rd (SR 241)	Boettler Rd	Turkeyfoot Lake Rd (SR 619)	1.01	21,413	131	43	5.55	1.37			Green
17	River St (SR 43)*	Haymaker Pkwy (SR 59)	W Main St	0.21	4,250	15	23	15.13	1.40			Kent
18	Graham Rd	Fishcreek Rd	Stow East Corp Line	0.66	11,870	50	25	5.86	1.44			Stow
19	State Rd	Portage Trail	Graham Rd	0.27	21,530	21	26	3.34	1.57	1	1	Cuyahoga Falls
20	E Main St	Water St	Willow St	0.27	9,070	23	28	8.58	1.35			Kent
21	SR 14	SR 303 (W Jct)	SR 303 (E Jct)	0.36	38,600	53	50	3.51	1.45			Streetsboro
22	Brittain Rd	E Tallmadge Ave (SR 261)	Independence Ave	0.61	13,985	48	26	5.11	1.42			Akron
23	S Arlington St	E Waterloo Rd	E Wilbeth Rd (SR 764)	0.70	14,830	48	23	4.19	1.50			Akron
24	Graham Rd	Hudson Dr	Silver Lake West Corp Line	0.44	28,680	47	36	3.42	1.47			Stow
25	E Main St (SR 59)	Freedom St (SR 88)	SR 14/SR 44	0.76	12,000	46	20	4.63	1.48			Ravenna
26	S Water St	Haymaker Pkwy (SR 59)	E Main St	0.18	5,260	16	30	15.75	1.25		1	Kent
27	Goodkirk St	Buchtel Ave	E Market St (SR 18)	0.24	9,050	25	35	10.47	1.24			Akron
28	Howe Ave	Cuyahoga Falls Corp Line	Main St	0.27	36,670	44	53	3.98	1.36			Cuyahoga Falls
29	W Streetsboro St (SR 303)	Boston Mills Rd	Main St (SR 91)	0.55	16,630	45	27	4.53	1.40	1	1	Hudson
30	Arlington Rd (CR 15)	I-77/Green NCL	Killian Rd (CR 135)	0.61	17,570	53	29	4.49	1.38			Summit Co-Springfield Twp
31	SR 43	Tallmadge Rd (CR 18)	I-76	0.52	10,870	26	17	4.23	1.62			Portage Co-Brimfield Twp
31	SR 14/44	SR 59	SR 5 (end SR 14 overlap)	0.39	18,660	27	23	3.42	1.52			Portage Co-Ravenna Twp
33	Gougler Ave (SR 43)	W Main St	N Mantua St	0.33	8,270	24	25	8.13	1.33			Kent
34	Fuller Rd	7th Ave	5th Ave	0.28	1,540	15	18	32.00	1.40			Akron
35	N Main St	E Tallmadge Ave	E Cuyahoga Falls Ave	0.36	13,170	19	18	3.66	1.63			Akron
36	E Exchange St	S Broadway St (SR 261)	Spicer St	0.76	21,317	87	38	4.92	1.28	1		Akron
37	E Main St (SR 59)	Horning Rd	Kent East Corp Line	0.52	17,350	43	28	4.39	1.37		1	Kent
37	W&E Main St (SR 59)	Sycamore St	Prospect St	0.26	13,810	31	40	7.96	1.19		1	Ravenna
39	Howe Ave	Main St	Buchholzer Blvd	0.69	22,540	59	29	3.47	1.44			Cuyahoga Falls
39	SR 14	I-480 ramp to Turnpike	SR 303 (W Jct)	1.18	32,730	104	29	2.46	1.61			Streetsboro
41	W Market St (SR 18)	Miller Rd	Fairlawn East Corp Line	0.68	21,960	59	29	3.62	1.41	1		Fairlawn
42	Broad Blvd	Second St	Newberry St	0.29	16,170	31	35	5.94	1.19			Cuyahoga Falls
43	E Cuyahoga Falls Ave	N Main St	Front St	1.00	12,660	63	21	4.55	1.38			Akron
44	State Rd	Broad Blvd	Portage Trail	0.96	15,027	54	19	3.42	1.52	1	1	Cuyahoga Falls
45	S Main St	S Broadway St	Bartges St	0.96	11,877	67	23	5.34	1.33		1	Akron
46	Russell Ave/Superior Ave*	East Ave	Diagonal Rd	0.74	6,007	27	12	5.58	1.70			Akron
47	Wooster Rd W	14th St NW	Wooster Rd N	0.75	11,813	35	16	3.61	1.63			Barberton
48	Copley Rd (SR 162)	Storer Ave	East Ave	0.36	12,430	22	21	4.53	1.36		1	Akron
48	N Main St (SR 91)	Streetsboro St (SR 303)	Owen Brown St	0.23	17,590	22	32	4.93	1.18			Hudson

Table 5-1
HIGH CRASH ROADWAY SECTIONS
RANKED BY COMPOSITE SCORE
2015-2017

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
50	E Buchtel Ave	Fountain St	E Market St (SR 18)	0.38	5,020	17	15	8.04	1.47			Akron
51	SR 5/44*	I-76	Prospect St	0.39	22,690	23	20	2.37	1.70			Portage Co-Rootstown Twp
52	SR 43	SR 303	Frost Rd	1.51	20,140	89	20	2.67	1.61			Streetsboro
53	Canton Rd (SR 91)	Akron SCL	Triplett Blvd	0.35	20,040	19	18	2.45	1.84			Akron
54	S Arlington St (SR 764 part)	E Wilbeth Rd (SR 764)	E Archwood Ave	0.49	17,393	26	18	2.80	1.62			Akron
55	State Rd	Cuyahoga Falls Corp Line	Broad Blvd	0.70	15,370	36	17	3.07	1.56			Cuyahoga Falls
56	Canton Rd (SR 91)	Waterloo Rd (US224)	Akron SCL	0.72	18,950	37	17	2.49	1.73	1		Summit Co-Springfield Twp
57	Manchester Rd (SR 93)	State St (CR 162)	Robinson Ave (CR 54)	0.89	14,640	45	17	3.16	1.53			Summit Co-Coventry Twp
58	S Cleveland-Massillon Rd	Rosemont Blvd/Elgin Dr	W Market St (SR 18)	0.72	19,560	48	22	3.13	1.42			Fairlawn
59	E Tallmadge Ave (SR 261)	N Main St	Gorge Blvd	0.60	13,470	43	24	4.85	1.23			Akron
60	Second St	Broad Blvd	Oakwood Dr	0.39	9,290	22	19	5.60	1.27			Cuyahoga Falls
61	Vernon Odom Blvd (SR 261)	East Ave (SR 93)	Rhodes Ave	0.50	7,565	23	15	5.50	1.43	1	1	Akron
62	Tallmadge Rd (CR 18)	Summit County Line	Sunnybrook Rd (CR 11)	1.06	11,580	48	15	3.57	1.54			Portage Co-Brimfield Twp
63	S Arlington St	2nd Ave	E Market St (SR 18)	0.58	11,233	25	14	3.49	1.56			Akron
64	Kent Rd (SR 59)	Fishcreek Rd	Stow East Corp Line	0.35	18,930	21	20	2.89	1.48			Stow
65	S Water St (SR 43)	SR 261	Cherry St	0.49	14,400	30	20	3.86	1.33			Kent
66	Darrow Rd (SR 91)	E Highland Rd	Aurora Rd (SR 82)	0.95	25,305	84	30	3.19	1.31			Twinsburg
67	N High St (SR 261)	E Market St (SR 18)	M.L. King Blvd (SR 59)	0.16	6,020	9	19	8.57	1.22			Akron
68	E Market St (SR 18)	E Buchtel Ave	E Exchange St	0.51	10,000	19	12	3.42	1.84	2	1	Akron
69	W Portage Trail Ext	Northampton Rd	State Rd	1.18	16,000	58	16	2.80	1.59			Cuyahoga Falls
70	W Market St (SR 18)	Merriman Rd	Maple St	0.72	20,717	45	21	2.77	1.44	2	2	Akron
71	N Water St	E Main St	Lake St	0.34	4,820	18	18	10.07	1.11			Kent
72	Graham Rd	Oakwood Dr/Wyoga Lake Rd	Hudson Dr	0.72	23,930	39	18	2.07	1.56			Stow
73	W Tallmadge Ave/West Ave (SR 261)	Brittain Rd	Tallmadge Circle	1.26	14,917	62	16	3.01	1.48			Tallmadge
74	W Portage Trail	State Rd	Second St	1.55	15,380	87	19	3.33	1.37			Cuyahoga Falls
75	N Chestnut St	Highland Ave	SR 14/SR 44	1.34	9,270	51	13	3.74	1.55	1	1	Ravenna
76	SR 59	Brady Lake Rd (CR 162)	Ravenna West Corp Line	0.52	12,710	22	14	3.06	1.55	1		Portage Co-Ravenna Twp
77	Wooster Rd N (SR 619 part)	State St	Barberton Corp Line	0.77	19,030	38	16	2.37	1.58			Barberton
78	Manchester Rd (SR 93)	Robinson Ave	Carnegie Ave	1.03	21,315	50	16	2.07	1.74	1	1	Summit Co-Coventry Twp
79	S Mantua St (SR 43)	Haymaker Pkwy (SR 59)	W Main St	0.19	6,220	6	10	4.62	1.67			Kent
80	SR 59	SR 261	Brady Lake Rd (CR 162)	2.52	17,100	108	14	2.29	1.92			Portage Co-Ravenna Twp
81	W Main St (SR 59)*	Ravenna West Corp Line	Diamond St	0.53	12,710	20	13	2.73	1.95			Ravenna
82	Medina Rd (SR 18)	S Hametown Rd (CR253)	I-77 centerline	0.89	27,030	62	23	2.36	1.42			Summit Co-Copley Twp
82	W&E Portage Trail	Second St	Newberry St/Munroe Falls Ave	0.29	18,960	22	25	3.67	1.09			Cuyahoga Falls
84	W Market St (SR 18)	Portage Path	Merriman Rd	0.60	15,840	41	23	3.94	1.10			Akron
85	E Highland Rd	SR 8	Valley View Rd	1.25	11,950	62	17	3.79	1.35			Macedonia
86	S Main St	Exchange St	Bowery St	0.37	6,855	19	17	6.93	1.11			Akron
87	S Main St*	Barbates St	Exchange St	0.54	5,150	26	16	8.46	1.23			Akron
88	Wooster Rd N	Norton Ave	State St	0.51	12,240	19	12	2.79	1.84			Barberton
89	Fountain St*	E Exchange St	Buchtel Ave	0.38	3,710	12	11	7.85	1.50			Akron
90	Valley View Rd (CR 25)*	Olde Eight Rd (CR 16)	SR 8	0.45	8,210	17	13	4.22	1.47			Summit Co-Northfield Twp
91	Wooster Rd W	31st St	14th St NW	1.01	13,313	45	15	3.05	1.49			Barberton
92	E Waterloo Rd	Brown St	S Arlington St	1.00	15,180	54	18	3.26	1.33	1	1	Akron
93	Bailey Rd/Hudson Dr	Munroe Falls Ave	Front St (SR 59)	0.48	13,770	22	15	3.07	1.45			Cuyahoga Falls
94	Franklin Ave	W Summit St	E Main St	0.27	4,870	13	16	9.17	1.00			Kent
95	E Archwood Ave	Brown St	S Arlington St	1.00	6,960	31	10	4.08	1.65	1	1	Akron
95	Oakwood Dr/Front St (SR 59)	Second St	Bailey Rd	0.73	11,613	35	16	3.78	1.34			Cuyahoga Falls
97	Copley Rd (SR 162)	S Hawkins Ave	Storer Ave	0.69	15,555	31	15	2.66	1.52			Akron
98	SR 43	Kent North Corp Line	Streetsboro South Corp Line	2.39	15,320	93	13	2.32	1.76			Portage Co-Franklin Twp

Table 5-1
HIGH CRASH ROADWAY SECTIONS
RANKED BY COMPOSITE SCORE
2015-2017

Rank	Roadway Section	From	To	Length (miles)	Average Daily Traffic	Total Crashes	Crashes per year	Crash Rate	Severity Index	Bike Related	Ped Related	Location
99	Main St	Howe Ave	Newberry St	0.45	11,590	19	14	3.33	1.42			Cuyahoga Falls
100	Copley Rd (SR 162)	Collier Rd	St Micheals	0.49	12,090	18	12	2.75	1.67			Akron
101	S Water St (SR 43)	Cherry St	Haymaker Pkwy (SR 59)	0.71	15,820	38	18	3.09	1.32	1		Kent
102	S&N Main St	Bowery St	M.L. King Blvd (SR 59)	0.44	7,970	18	14	4.66	1.33			Akron
103	Front St/Kent Rd (SR 59)	Bailey Rd	Oak Park Blvd	0.36	23,120	17	16	1.88	1.59			Cuyahoga Falls
104	Hill St/E Buchtel Ave	University Ave	S Union St	0.33	9,963	12	12	3.31	1.50	1	2	Akron
105	N Mantua St (SR 43)	Gougler Ave	Kent North Corp Line	1.00	19,630	58	19	2.71	1.31	1	1	Kent
106	S Miller Rd	Ridgewood Rd	W Market St (SR 18)	0.97	19,190	51	17	2.49	1.39			Akron
107	SR 14	SR 303 (E Jct)	Diagonal Rd	2.08	21,130	89	14	1.85	1.61			Streetsboro
108	W&E Tallmadge Ave	Cuyahoga Falls Ave	N Main St	0.42	9,680	13	10	2.92	2.15			Akron
109	N Main St (SR 91)	Munroe Falls Ave	N River Rd	0.39	18,370	24	20	3.02	1.08			Munroe Falls
110	Darrow Rd (SR 91)	Kent Rd (SR 59)	Stow Rd	0.65	21,770	38	20	2.46	1.32			Stow
111	E Steels Corners Rd	Stow West Corp Line	Hudson Dr	0.84	21,840	34	13	1.69	1.71			Stow
112	Manchester Rd (SR 93)	Carnegie Ave	Waterloo Rd	0.44	22,410	22	17	2.05	1.45			Akron
113	US 224 (Waterloo Rd)	Akron ECL	Canton Rd (SR 91/CR 66)	1.53	20,805	63	14	1.80	1.63			Summit Co-Springfield Twp
114	Wooster Rd N	Hopocan Ave	Norton Ave	0.66	10,690	23	12	2.98	1.52			Barberton
115	Smith Rd	W Market St (SR 18)	Ghent Rd	0.64	11,080	22	12	2.85	1.55			Fairlawn
116	S Chillicothe Rd (SR 43)	Aurora-Hudson Rd	Aurora Rd (SR 43)	0.44	19,150	18	14	1.95	1.56	1		Aurora
117	E Steels Corners Rd	State Rd	Cuyahoga Falls Corp Line	0.99	12,685	41	14	2.97	1.39			Cuyahoga Falls
118	W Market St (SR 18)	Smith Rd	Ghent Rd	0.72	20,490	40	19	2.48	1.30		1	Fairlawn
119	W Aurora Rd (SR 82)	I-480	Darrow Rd (SR 91)	0.56	18,250	30	18	2.67	1.27			Twinsburg
120	SR 8	I-271 ramps	SR 82	1.47	27,770	71	16	1.59	1.48			Macedonia
120	SR 14/44	Ravenna NE Corp Line	SR 59	1.37	16,240	50	12	2.06	1.64			Portage Co-Ravenna Twp
122	Akron General Ave	Livingston St	W Cedar St	0.27	3,910	10	12	8.65	1.00			Akron
123	Garfield Rd W (SR 82)	Aurora Rd (SR 43)	Chillicothe Rd (SR 306)	0.24	11,830	11	15	3.55	1.18			Aurora
124	Kenmore Blvd	W Wilbeth Rd	Manchester Rd	1.27	9,170	44	12	3.46	1.41			Akron
124	Graham Rd	Silver Lake West Corp Line	Englewood Dr	1.04	29,310	43	14	1.29	1.56			Silver Lake
126	Howe Ave	Brittain Rd/Bailey Rd	Cuyahoga Falls Corp Line	0.66	11,260	22	11	2.70	1.55			Cuyahoga Falls
127	S High St (SR 261)	E Exchange St	E Market St (SR 18)	0.67	8,903	28	14	4.31	1.07			Akron
128	Massillon Rd/Geo Washington Blvd	Oaks Dr/Akron Corp Line	E Waterloo Rd (US 224)	0.56	12,990	20	12	2.51	1.50			Akron
129	W Main St (SR 59)	Diamond St	Sycamore St	0.37	11,380	13	12	2.82	1.46			Ravenna
130	W Portage Trail Ext	Akron-Peninsula Rd	Northampton Rd	1.05	18,260	37	12	1.77	1.65			Cuyahoga Falls
131	E Market St (SR 18)	Mogadore Rd	Canton Rd (SR 91)	0.96	12,435	37	13	2.83	1.38			Akron
131	E Aurora Rd (SR 82)	SR 8	N Bedford Rd	0.75	24,920	38	17	1.86	1.37			Macedonia
133	S Broadway St	S Main St	Bariges St	0.92	12,057	38	14	3.14	1.26			Akron
134	Darrow Rd / S Main St (SR 91)	Hudson Dr	Streetsboro St (SR 303)	1.23	21,120	55	15	1.93	1.44			Hudson
135	Kent Rd (SR 59)	Darrow Rd (SR 91)	Fishcreek Rd	2.21	17,510	88	13	2.08	1.45			Stow
136	E Turkeyfoot Lake Rd (SR 619)	S Main St	Arlington Rd	1.57	12,050	52	11	2.52	1.50			Green
137	E Tallmadge Ave (SR 261)	Gorge Blvd	Home Ave	0.57	16,870	22	13	2.08	1.45			Akron
138	SR 14/44	N Freedom St/SR 88	Ravenna NE Corp Line	0.21	16,240	10	16	2.72	1.20			Ravenna
139	E Main St (SR 59)	Prospect St	Freedom St (SR 88)	0.42	12,980	16	13	2.68	1.38			Ravenna
140	E Wilbeth Rd (SR 764)	Brown St	S Arlington St	1.00	12,010	34	11	2.59	1.47			Akron
141	Mogadore Rd	E Market St (SR 18)	Canton Rd (SR 91)	0.92	8,110	32	12	3.90	1.25			Akron
142	Copley Rd (SR 162)	East Ave	Diagonal Rd/S Portage Path	0.38	12,430	15	13	2.91	1.27			Akron
143	Vernon Odum Blvd (SR 261)	Romig Rd	S Hawkins Ave	0.75	14,685	30	13	2.50	1.33			Akron
144	S Broadway St (SR 261)	E Exchange St	E Market St (SR 18)	0.67	10,078	23	11	3.12	1.35			Akron
145	Fairchild Ave	Hudson Rd (TR 146)	N Water St	0.20	12,240	8	13	2.92	1.25	1	1	Kent
146	S Arlington St	E Archwood Ave	2nd Ave	1.18	13,720	38	11	2.15	1.53	1	1	Akron
147	W Market St (SR 18)	Hawkins Ave	Twin Oaks Rd	0.83	16,000	29	12	2.00	1.48	1		Akron

Table 5-1
HIGH CRASH ROADWAY SECTIONS
RANKED BY COMPOSITE SCORE
2015-2017

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
148	E Tallmadge Ave (SR 261)	Home Ave	Brittain Rd	1.15	15,855	47	14	2.35	1.34			Akron
149	W Main St (SR 59)	Spaulding Dr	Longmere Dr	0.51	20,460	21	14	1.85	1.38			Kent
150	Vernon Odum Blvd (SR 261)	S Hawkins Ave	East Ave (SR 93)	1.23	7,230	38	10	3.89	1.32			Akron
151	Graham Rd	Darrow Rd (SR 91)	Fishcreek Rd	1.85	15,157	60	11	1.96	1.50		1	Stow
152	E Exchange St	Spicer St	E Market St (SR 18)	0.91	14,165	30	11	2.12	1.47	1		Akron
153	South St	Wolf Ledges Pkwy/Bellows St	Brown St	0.50	7,670	17	11	4.08	1.00			Akron
154	SR 59	Alpha Dr	SR 261	0.40	17,350	17	14	2.24	1.24			Portage Co-Franklin Twp
155	N Canton Rd/Darrow Rd (SR 91)	Mogadore Rd	Newton St	0.66	19,560	25	13	1.76	1.40			Akron
156	W Exchange St	Mull Ave	Work Dr/S Portage Path	0.97	8,690	31	11	3.37	1.26			Akron
157	Darrow Rd (SR 91)	Stow South Corp Line	Kent Rd (SR 59)	0.51	15,470	16	10	1.85	1.50			Stow
158	Graham Rd	State Rd	Oakwood Dr/Wyoga Lake Rd	1.17	16,050	41	12	1.99	1.39			Cuyahoga Falls
159	Bailey Rd	Northmoreland Blvd	Munroe Falls Ave	0.62	8,720	19	10	3.22	1.32			Cuyahoga Falls
160	Macedonia Commons Blvd	SR 8	Aurora Rd	0.71	9,850	23	11	3.01	1.26			Macedonia
161	Second St	Oakwood Dr	Front St	0.63	6,400	19	10	4.32	1.00			Cuyahoga Falls
162	Manchester Rd (SR 93)	Waterloo Rd	Wilbeth Rd (SR 764)	0.60	12,030	20	11	2.54	1.30			Akron
163	E Aurora Rd (SR 82)	N Bedford Rd	Macedonia East Corp Line	1.71	13,360	56	11	2.23	1.36			Macedonia
164	W Aurora Rd/Ravenna Rd (SR 82)	Darrow Rd (SR 91)	E Aurora Rd (SR 82)	1.16	10,570	36	10	2.68	1.33			Twinsburg
165	SR 43	I-76	Kent South Corp Line	1.61	21,820	50	10	1.30	1.48			Portage Co-Brimfield Twp
166	E Waterloo Rd	S Main St	Brown St	0.86	13,485	28	11	2.20	1.36			Akron
167	W Exchange St (SR 261 part)	Dart Ave	S Main St	0.55	10,317	18	11	2.91	1.11			Akron
168	Kent Rd (SR 59)	Stow West Corp Line	Darrow Rd (SR 91)	0.58	15,360	20	12	2.07	1.30			Stow
169	Fishcreek Rd	Graham Rd	Kent Rd (SR 59)	0.88	17,660	32	12	1.89	1.25			Stow
170	W&E Market St (SR 18)	Maple St	Main St	0.40	21,670	15	12	1.57	1.27			Akron
171	M.L. King Blvd/Perkins St (SR 59)	N Broadway St (SR 261)	N Adolph Ave	0.61	17,480	19	10	1.62	1.42			Akron
172	Smith Rd	Ghent Rd	Owasso Ave	0.52	12,570	17	11	2.38	1.24			Akron
173	Northfield Rd (SR 8)	Ledge Rd	Sagamore Rd/Northfield NCL	1.03	18,870	31	10	1.45	1.45			Northfield
174	N Portage Path	Merriman Rd	Portage Trail	0.28	18,620	10	12	1.76	1.00		1	Akron
175	South Ave (SR 91)	Tallmadge SCL	Tallmadge Circle	1.11	13,795	35	11	2.09	1.17			Tallmadge
176	Massillon Rd (SR 241)	Krumroy Rd (CR 130)	Oaks Dr/Akron SCL	0.29	12,990	9	10	2.17	1.22			Summit Co-Springfield Twp
177	S Canton Rd (SR 91)	E Market St (SR 18)	Mogadore Rd	0.55	13,450	17	10	2.09	1.24		1	Akron
178	Graham Rd	Englewood Dr	Darrow Rd (SR 91)	0.51	21,940	16	10	1.31	1.25			Stow
179	W Market St (SR 18)	Sand Run Rd	Hawkins Ave	1.11	23,797	35	11	1.21	1.23	1	1	Akron

* These locations had a fatality.

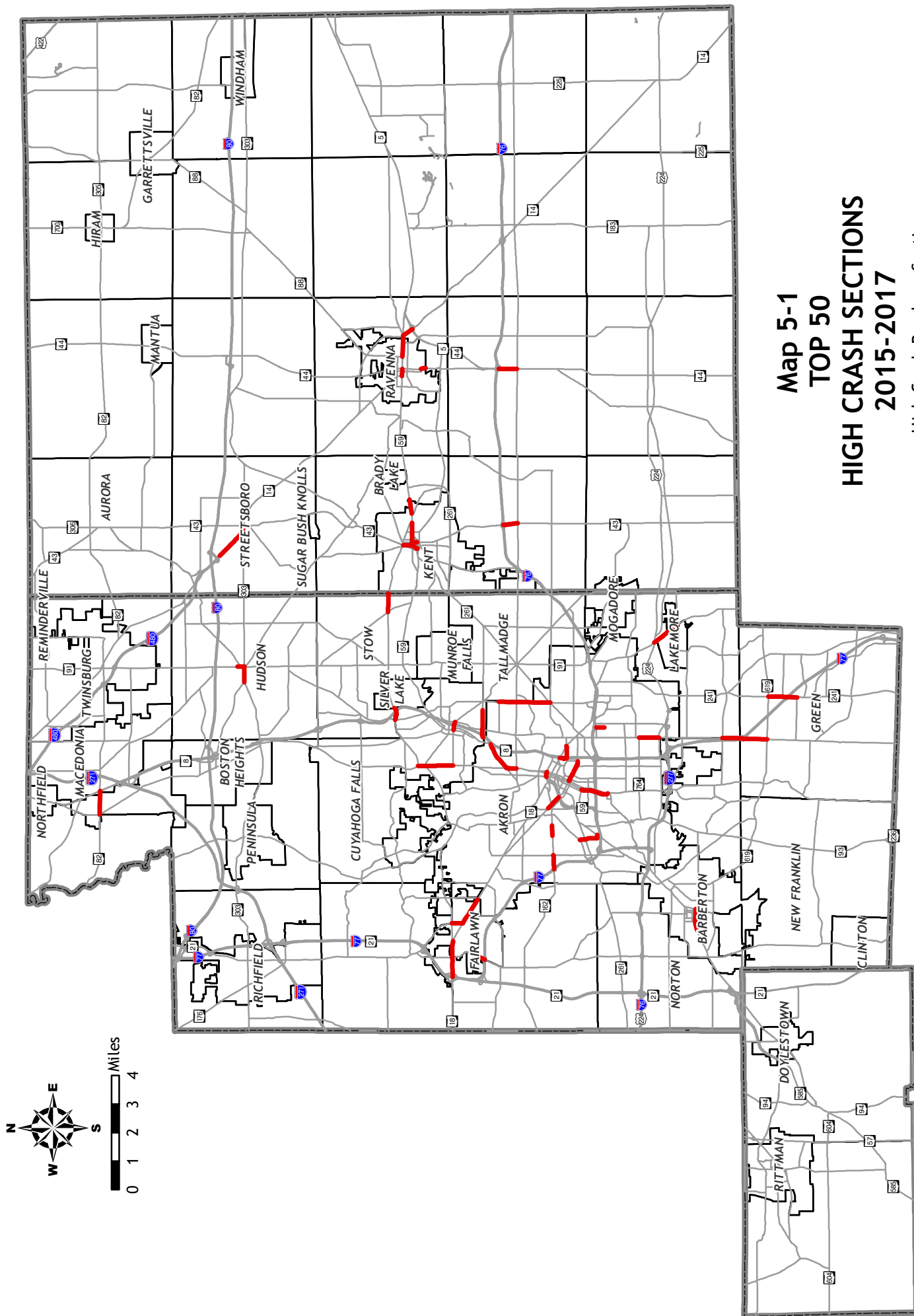


Table 5-2

HIGH CRASH INTERSECTIONS

RANKED BY COMPOSITE SCORE

2015-2017

Rank	Street	Intersecting Street(s)	Approach Ave. Daily Traffic	Total Crashes	Crash Rate	Severity Index	Bike Related	Ped Related	Location
1	S Maple St (SR 162)	Rhodes Ave	13,290	41	2.82	1.88	1		Akron
2	S Maple St (SR 162)	W Cedar St	16,200	45	2.54	1.76			Akron
3	S Broadway St	E Thornton St	18,245	51	2.55	1.71			Akron
4	SR 14	Brook Valley Trail/Shady Lake Dr	27,030	56	1.89	1.89			Streetsboro
5	Darrow Rd (SR 91)	Graham Rd	42,395	96	2.07	1.58			Stow
6	Corporate Woods Cir	Corporate Woods Pkwy	7,350	32	3.98	1.81			Green
7	E Market St (SR 18)*	Mogadore Rd/I-76 Ramps	40,595	75	1.69	1.68		1	Akron
8	Vernon Odom Blvd (SR 261)	Superior Ave	13,005	34	2.39	1.76	1		Akron
9	SR 14/SR 303	SR 43	48,390	132	2.49	1.45			Streetsboro
10	Triplett Blvd (SR 764)	Kelly Ave/Lindsay Ave	14,855	34	2.09	1.82		1	Akron
11	Brittain Rd	Evans Ave	16,545	38	2.10	1.68			Akron
12	Perkins St (SR 59)	SR 8 Ramps	35,680	61	1.56	1.66			Akron
13	SR 43	Tallmadge Rd	19,270	37	1.75	1.76		1	Portage Co-Brimfield Twp
14	Graham Rd	Fishcreek Rd	28,155	55	1.78	1.58			Stow
15	Vernon Odom Blvd (SR 261)	S Hawkins Ave	18,810	37	1.80	1.70			Akron
16	E Exchange St	Fountain St	22,610	47	1.90	1.55		2	Akron
17	E Tallmadge Ave (SR 261)	Home Ave	31,060	61	1.79	1.49			Akron
18	E Market St (SR 18)	Goodyear Blvd	17,815	42	2.15	1.52		2	Akron
18	Portage Trail	2nd St	29,830	61	1.87	1.46	1		Cuyahoga Falls
20	S Broadway St (SR 261)	E Mill St	14,540	35	2.20	1.57		2	Akron
21	W Exchange St	Delia Ave	15,050	36	2.18	1.56		1	Akron
22	SR 43	I-76 Ramps/Edson Rd	43,720	85	1.78	1.45			Portage Co-Brimfield Twp
23	Archwood Ave	Coventry St	7,310	25	3.12	1.72			Akron
24	E Tallmadge Ave (SR 261)	Gorge Blvd/SR 8 NB Off-ramp	25,670	70	2.49	1.34		3	Akron
25	W Market St (SR 18)	Smith Rd	28,595	45	1.44	1.67			Fairlawn
26	State St (SR 619)	Wooster Rd N (SR 619)	27,545	44	1.46	1.68			Barberton
27	N Howard St	Glenwood Ave	8,775	24	2.50	1.75			Akron
28	Tallmadge Ave	N Howard St	15,535	39	2.29	1.46		1	Akron
29	E Tallmadge Ave (SR 261)	Brittain Rd	27,935	58	1.90	1.41		2	Akron
30	Portage Trail	State Rd	34,080	101	2.71	1.26			Cuyahoga Falls
31	Innovation Way (SR 241)	S Seiberling St/Eagle Way	21,685	41	1.73	1.54			Akron
32	SR 14	Mondial Pkwy/Singletary Dr	27,030	50	1.69	1.48			Streetsboro
32	Tallmadge Circle		34,800	256	6.72	1.18			Tallmadge
34	Brittain Rd	Eastland Ave/Eastwood Ave	20,495	53	2.36	1.34		1	Akron
35	Mantua St (SR 43)	SR 261	28,035	59	1.92	1.37			Kent
36	Broad Blvd	SR 8 Ramps	41,670	79	1.73	1.38		3	Cuyahoga Falls
37	Portage Trail	Northampton Rd	21,735	42	1.76	1.48			Cuyahoga Falls
38	Opportunity Pkwy (SR 261)	Dart Ave	12,040	24	1.82	2.00			Akron
39	Broad Blvd	2nd St	20,480	35	1.56	1.63			Cuyahoga Falls
40	Riverview Rd	Ira Rd	4,855	18	3.39	1.78			Cuyahoga Falls
41	Bellows St	Crosier St	3,230	17	4.81	1.82		1	Akron
42	Broad Blvd	Tallmadge Rd/Newberry St	23,680	60	2.31	1.30		2	Cuyahoga Falls
43	S Main St	Swartz Rd/US 224 EB Ramps	21,338	40	1.71	1.50			Akron

Table 5-2
HIGH CRASH INTERSECTIONS
 RANKED BY COMPOSITE SCORE
 2015-2017

Rank	Street	Intersecting Street(s)	Approach Ave. Daily Traffic	Total Crashes	Crash Rate	Severity Index	Bike Related	Ped Related	Location
44	Howe Ave	Buchholzer Blvd	20,890	44	1.92	1.41		1	Cuyahoga Falls
45	E Waterloo Rd/US 224	George Washington Blvd (SR 241)	36,425	59	1.48	1.47			Akron
46	E Market St (SR 18)	Broadway St (SR 261)	26,375	45	1.56	1.49			Akron
47	SR 8	Macedonia Commons Blvd/I-271 Ramps	23,215	49	1.93	1.37			Macedonia
48	E Turkeyfoot Lake Rd (SR 619)	Arlington Rd	28,605	51	1.63	1.43			Green
49	Graham Rd	Hudson Dr	34,205	59	1.58	1.41			Cuyahoga Falls
50	E Market St (SR 18)	Arlington St	18,810	31	1.51	1.71			Akron
50	MLK Jr. Blvd (SR 59)	N Broadway St (SR 261)	22,950	37	1.47	1.59			Akron
52	Howe Ave	Main St	42,420	86	1.85	1.30			Cuyahoga Falls
52	SR 8	Aurora Rd (SR 82)	36,380	86	2.16	1.21			Macedonia
54	Old Forge Rd	Mogadore Rd	4,280	19	4.05	1.63			Portage Co-Brimfield Twp
55	Howe Ave/Tallmadge Rd/NW Ave	Brittain Rd/Bailey Rd	29,550	71	2.19	1.23			Cuyahoga Falls
56	E Tallmadge Ave (SR 261)	N Main St (SR 261)	24,625	40	1.48	1.55		1	Akron
57	Northeast Ave (SR 261)	E Howe Rd/N Munrow Ave	16,720	49	2.68	1.24			Tallmadge
58	Brookmont Dr	Brookwall Dr	6,020	19	2.88	1.63			Fairlawn
59	S Arlington St	E Waterloo Rd	23,645	40	1.54	1.50			Akron
60	Portage Trail	Valley Rd	19,270	32	1.52	1.63			Cuyahoga Falls
61	W Cedar St (SR 261)	Locust St (SR 261)	12,085	28	2.12	1.50		2	Akron
62	Medina Rd (SR 18)	Springside Dr	44,395	57	1.17	1.63			Summit Co-Bath Twp
63	SR 261	Campus Center Dr	15,605	31	1.81	1.52			Kent
64	W Exchange St	Wabash Ave	12,640	30	2.17	1.47			Akron
64	SR 8	Highland Ave	35,905	86	2.19	1.12			Macedonia
66	Graham Rd	State Rd	24,405	45	1.68	1.40			Cuyahoga Falls
67	W Market St (SR 18)	Miller Rd	36,235	59	1.49	1.41			Fairlawn
68	Cleveland Massillon Rd	Eastern Rd	5,970	15	2.29	2.33			Norton
69	E Waterloo Rd (US 224)	Canton Rd (SR 91/CR 66)	36,955	57	1.41	1.46			Summit Co-Springfield Twp
70	S Broadway St	E Voris St/I-76/77 WB Off-ramp	13,470	38	2.58	1.32			Akron
71	Massillon Rd (SR 241)	I-77 Ramps	43,695	78	1.63	1.33			Green
72	Archwood Ave	Inman St	8,540	26	2.78	1.46			Akron
73	E Cedar St (SR 261)	S High St	13,435	28	1.90	1.50		1	Akron
74	Manchester Rd (SR 93)	W Waterloo Rd	28,205	54	1.75	1.33		1	Akron
75	Steels Corners Rd	Wyoga Lake Rd	17,300	32	1.69	1.50			Cuyahoga Falls
76	Copley Rd (SR 162)	S Hawkins Ave	23,225	37	1.45	1.54		1	Akron
77	W Exchange St	Dart Av	15,160	26	1.57	1.69			Akron
78	Darrow Rd (SR 91)	Glenwood Dr	20,720	45	1.98	1.31			Twinsburg
79	Cleveland Massillon Rd	Brookwall Dr	22,270	37	1.52	1.49			Fairlawn
80	SR 261	Franklin Ave/Sunnybrook Rd	12,400	21	1.55	2.24			Kent
81	Gougler Ave (SR 43)	River (SR 43)/W Main St	14,675	30	1.87	1.47		3	Kent
82	Eastland Ave	Chapman Dr	5,235	14	2.44	1.86			Akron
83	Brown St	E Thornton St	5,310	14	2.41	1.86			Akron
84	Bellows St	Archwood Ave	4,160	16	3.51	1.63			Akron
85	Hudson Dr	Terex Rd	12,160	30	2.25	1.40			Hudson
86	Cleveland Canton Rd (SR 43)	Frost Rd	24,065	37	1.40	1.54			Streetsboro

Table 5-2

HIGH CRASH INTERSECTIONS

RANKED BY COMPOSITE SCORE

2015-2017

Rank	Street	Intersecting Street(s)	Approach Ave. Daily Traffic	Total Crashes	Crash Rate	Severity Index	Bike Related	Ped Related	Location
87	W Cedar St	Rand Ave	13,120	22	1.53	1.91			Akron
88	Merriman Rd	N Portage Path	25,935	52	1.83	1.27			Akron
89	East Ave	Euclid Ave	6,535	15	2.10	2.07			Akron
90	E Market St (SR 18)	Canton Rd (SR 91)/Robindale Ave	20,870	37	1.62	1.43		1	Akron
91	S Main St	Turkeyfoot Lake Rd (SR 619)	23,700	34	1.31	1.65		1	Green
92	Carroll St	Goodkirk St	14,630	38	2.37	1.26			Akron
92	SR 261	Summit Rd	19,575	29	1.35	1.69			Portage Co-Franklin Twp
94	State Rd	Bath Rd	19,330	34	1.61	1.47			Cuyahoga Falls
95	Dart Av	W Thornton St	9,820	18	1.67	1.89		1	Akron
96	E Tallmadge Ave (SR 261)	Dayton St	18,305	31	1.55	1.52			Akron
97	Massillon Rd (SR 241)	Raber Rd	24,810	36	1.33	1.56			Green
98	S Arlington St	Archwood Ave	19,310	30	1.42	1.60		1	Akron
99	Massillon Rd (SR 241)	Steese Rd	14,230	41	2.63	1.10			Green
100	E Wilbeth Rd (SR 764)	Coventry St/I-77 SB Ramp	14,150	31	2.00	1.39			Akron
101	Cedar St (SR 261)	S Main St	15,590	28	1.64	1.50		1	Akron
102	Medina Rd (SR 18)	Crystal Lake Rd/Montrose West Ave	48,380	60	1.13	1.50			Summit Co-Bath Twp
103	2nd St	Northland St	7,750	16	1.89	1.75			Cuyahoga Falls
104	Massillon Rd (SR 241)	Boettler Rd	31,120	42	1.23	1.52			Green
105	MLK Jr. Blvd (SR 59)	N High St (SR 261)	25,005	32	1.17	1.75		1	Akron
106	MLK Jr. Blvd (SR 59)	N Main St/Howard St	32,410	47	1.32	1.43			Akron
107	E Aurora Rd (SR 82)	S Bedford Rd/Freeway Dr	19,485	43	2.02	1.19		1	Macedonia
108	Lakeshore Blvd	W South St/Boulevard St	9,825	19	1.77	1.63			Akron
109	S Main St*	Miller Ave/Old Main St	16,090	27	1.53	1.56			Akron
110	S Miller Rd	Ridgewood Rd /I-77 Ramps	28,400	43	1.38	1.42			Fairlawn
111	W Exchange St	S Portage Path/Hyde Ave	13,960	25	1.64	1.56			Akron
112	Case Ave	River St	4,450	11	2.26	2.09			Akron
113	S Broadway St (SR 261)	E Exchange St	33,225	58	1.59	1.24		3	Akron
114	Olde Eight Rd	Twinsburg Rd	7,140	14	1.79	2.00			Northfield Center Twp
115	W Exchange St (SR 261)	Locust St (SR 261)	11,375	34	2.73	1.18			Akron
116	Buchtel Ave	Goodkirk St	20,990	33	1.44	1.48		1	Akron
117	Wooster Rd N (SR 619)	East Ave/Kenmore Blvd/I-76 WB Ramps	20,795	35	1.54	1.40			Barberton
118	Archwood Ave	Hammel St	7,900	18	2.08	1.56			Akron
118	Glenwood Ave	SR 8 Ramps/Gorge Blvd	23,120	35	1.38	1.46			Akron
120	SR 14	Market Square Dr	33,700	51	1.38	1.35			Streetsboro
121	S Water St (SR 43)	Summit St	29,820	42	1.29	1.43			Kent
122	E Tallmadge Ave (SR 261)	Patterson Ave	18,295	27	1.35	1.59		1	Akron
123	Grant St	E South St	12,620	27	1.95	1.37		1	Akron
124	W Cedar St	Wabash Ave	11,430	18	1.44	1.78		1	Akron
124	Merriman Rd	Edgerton Rd	3,886	10	2.35	1.80			Akron
126	Wooster Rd N	W Hopocan Ave	11,340	24	1.93	1.42		1	Barberton
127	W Market St/Medina Rd (SR 18)	Cleveland Massillon Rd	48,380	76	1.43	1.18			Summit Co-Bath Twp
127	E Main St (SR 59)	Lincoln St	24,640	36	1.33	1.44		2	Kent
129	Vernon Odom Blvd (SR 261)	East Ave	13,145	27	1.88	1.37			Akron

Table 5-2
HIGH CRASH INTERSECTIONS
RANKED BY COMPOSITE SCORE
2015-2017

Rank	Street	Intersecting Street(s)	Approach Ave. Daily Traffic	Total Crashes	Crash Rate	Severity Index	Bike Related	Ped Related	Location
130	Tallmadge Rd	Sandy Lake Rd	6,300	12	1.74	2.17			Portage Co-Brimfield Twp
131	Front St (SR 59)	Hudson Dr	33,495	45	1.23	1.40		1	Cuyahoga Falls
132	Wadsworth Rd (SR 261)	SR 21 Ramps	7,640	15	1.79	1.67			Norton
133	Massillon Rd (SR 241)	E Turkeyfoot Lake Rd (SR 619)	22,740	35	1.41	1.40			Green
134	Brown St	Cole Ave	8,450	16	1.73	1.63			Akron
134	State Rd	Chestnut Blvd	16,645	26	1.43	1.54			Cuyahoga Falls
136	State Rd	Steels Corners Rd	20,620	35	1.55	1.34			Cuyahoga Falls
137	S Water St (SR 43)	Haymaker Pkwy (SR 59)	33,755	50	1.35	1.32		1	Kent
138	E Waterloo Rd	Coventry St/I-77 NB On-ramp	20,920	26	1.14	1.77		3	Akron
139	SR 14	Alliance Rd	6,700	12	1.64	2.33			Portage Co-Atwater Twp
139	Aurora Rd (SR 43)	W Garfield Rd (SR 82)	20,816	35	1.54	1.34			Aurora
141	Canton Rd (SR 91)	Mogadore Rd	21,750	28	1.18	1.64			Akron
142	Wooster Rd N	Wooster Rd W/Robinson Ave	19,475	27	1.27	1.59			Barberton
143	Dart Ave	W Center St/Locust St	5,805	11	1.73	2.09			Akron
144	S Main St	Waterloo Rd	26,395	42	1.45	1.29			Akron
145	E Waterloo Rd/IUS 224	Hilbish Ave	28,010	32	1.04	1.69			Akron
146	E Turkeyfoot Lake Rd (SR 619)	Myersville Rd	9,865	16	1.48	1.75			Green
147	Bartges St	Dart Ave	7,070	13	1.68	1.77			Akron
148	Grant St	E Thornton St	8,990	16	1.63	1.63			Akron
149	Kent Rd (SR 59)	Darrow Rd (SR 91)	36,010	41	1.04	1.54			Stow
150	Smith Rd	Ghent Rd	25,830	29	1.03	1.76			Fairlawn
151	Barlow Rd	Terex Rd (W Jct)	8,305	15	1.65	1.67			Hudson
152	E Market St (SR 18)	Main St	30,885	39	1.15	1.46			Akron
153	S Water St (SR 43)	Beryl Dr	15,460	21	1.24	1.76			Kent
154	SR 303	SR 700	6,420	11	1.56	2.45			Portage Co-Freedom Twp
155	Manchester Rd (SR 93)	I-277/IUS 224 WB Off-ramp	33,640	45	1.22	1.36			Akron
156	Kelly Ave	E Waterloo Rd/Emmitt Rd	14,090	28	1.81	1.29	1		Akron
157	Darrow Rd (SR 91)	Eastwood Ave	21,030	32	1.39	1.38			Akron
158	Carroll St	Fountain St	12,030	29	2.20	1.07			Akron
159	North Ave (SR 91)	Howe Rd	21,090	36	1.56	1.22			Tallmadge
160	Cleveland Canton Rd (SR 43)	Cherokee Trail/Pike Pkwy	20,135	26	1.18	1.62			Streetsboro
161	Highland Rd	Valley View Rd	18,310	34	1.70	1.18			Macedonia
162	SR 82	Chamberlain Rd	6,611	11	1.52	2.27			Portage Co-Mantua Twp
163	E Market St (SR 18)	Hilbish Ave/Verdun Dr	21,785	25	1.05	1.80		1	Akron
164	E Wilbeth Rd (SR 764)	Allendale Ave	10,860	16	1.35	1.75		1	Akron
165	Grant St	E Voris St	9,445	24	2.32	1.25			Akron
166	Graham Rd	Wyoga Lake Rd/Oakwood Dr	25,900	32	1.13	1.50			Cuyahoga Falls
167	N Mantua St (SR 43)	Fairchild Ave	32,815	46	1.28	1.26			Kent
168	Main St (SR 59)	Chestnut St	19,745	29	1.34	1.41		3	Ravenna
169	Howe Ave	SR 8 Ramps	62,710	71	1.03	1.37	1		Cuyahoga Falls
170	S Hawkins Ave	Morse St	4,431	11	2.27	1.55			Akron
171	SR 14/44	N Freedom St (SR 88)	21,190	25	1.08	1.72			Ravenna
172	E Main St (SR 59)	Horning Rd	23,025	28	1.11	1.57		1	Kent

Table 5-2
HIGH CRASH INTERSECTIONS
RANKED BY COMPOSITE SCORE
2015-2017

Rank	Street	Intersecting Street(s)	Approach Ave. Daily Traffic	Total Crashes	Crash Rate	Severity Index	Bike Related	Ped Related	Location
173	E Cuyahoga Falls Ave	Patterson Ave/Murray Ave	14,975	22	1.34	1.55		1	Akron
174	Archwood Ave	Burkhardt Ave	11,210	16	1.30	1.75		1	Akron
175	SR 585	Eastern Rd	17,560	22	1.14	1.73			Norton
175	SR 225	Tallmadge Rd	4,190	10	2.18	1.60	1		Portage Co-Palmyra Twp
175	Kent Rd (SR 59)	Charring Cross Rd	20,390	24	1.07	1.75			Stow
178	S High St	Selle St	14,420	21	1.33	1.57	1		Akron
179	W Main St (SR 59)	Diamond St	15,560	19	1.12	1.84			Ravenna
180	Oakwood Dr	4th St/Thomas Ct	8,295	13	1.43	1.77			Cuyahoga Falls
181	Gougler Ave (SR 43)	Park Ave	7,690	19	2.26	1.32			Kent
182	Cottage Grove Rd	Moore Rd	5,335	13	2.23	1.46			Green
183	W Market St (SR 18)	Elmdale Ave/Kenilworth Dr	17,840	25	1.28	1.48			Akron
184	Broadview Rd/Wheatley Rd (SR 176)	Brecksville Rd	17,780	23	1.18	1.61			Richfield
185	Memorial Pkwy	Merriman Rd	18,370	28	1.39	1.36			Akron
186	Dart Av	W State St	6,960	22	2.89	1.09	1		Akron
187	N Arlington St	E Buchtel Ave	10,750	19	1.61	1.42			Akron
188	S Arlington St	S Case Av/Johnston St	15,345	21	1.25	1.57			Akron
189	Bailey Rd	Munroe Falls Ave	19,250	26	1.23	1.46		1	Cuyahoga Falls
190	E Exchange St	S Arlington St	17,850	24	1.23	1.50			Akron
191	S Arlington Rd	Arlington Ridge	24,860	28	1.03	1.57			Green
192	Darrow Rd (SR 91)	Norton Rd	28,865	33	1.04	1.48			Stow
193	SR 88	SR 303 (E Jct)	7,845	11	1.28	2.64			Portage Co-Freedom Twp
194	Manchester Rd (SR 93)*	W Turkeyfoot Lake Rd (SR 619)	17,110	19	1.01	2.11			New Franklin
195	W Market St (SR 18)	Hawkins Ave	28,195	34	1.10	1.41			Akron
196	Grant St	North Conn St/South Conn St	27,110	35	1.18	1.34		1	Akron
197	SR 14	SR 44/N Chestnut St	24,080	27	1.02	1.59			Ravenna
198	SR 43	Randolph Rd	6,971	11	1.44	1.73	1		Portage Co-Suffield Twp
199	S Broadway St (SR 261)	University Ave	19,900	24	1.10	1.58		2	Akron
200	Wooster Rd N	W Paige Ave	9,340	13	1.27	1.77		1	Barberton
201	W Cedar St	Dart Ave	12,720	16	1.15	1.75			Akron
202	N Main St	E Cuyahoga Falls Ave	18,845	22	1.07	1.64		1	Akron
203	W Market St (SR 18)	Portage Path	16,870	24	1.30	1.42		1	Akron
203	Manchester Rd (SR 93)	Russell Ave	7,820	11	1.28	1.91			Akron
205	East Ave	Russell Ave	8,331	16	1.75	1.38		1	Akron
206	S Arlington Rd	Killian Rd	23,625	27	1.04	1.52			Summit Co-Springfield Twp
207	Copley Rd (SR 162)	Frederick Blvd	13,140	21	1.46	1.38		1	Akron
208	Portage Trail	Munroe Falls Ave/Newberry St	21,680	27	1.14	1.44			Cuyahoga Falls
209	S Broadway St (SR 261)	E Bowery St	11,155	15	1.23	1.67			Akron
210	MLK Jr. Blvd (SR 59)	Summit St	17,925	25	1.27	1.40			Akron
211	E Market St (SR 18)	Buchtel Ave/Cotter Ave	20,005	23	1.05	1.61		2	Akron
212	Archwood Ave	Sylvan Ave	7,360	10	1.24	2.40			Akron
213	Manchester Rd (SR 93)	W Wilbeth Rd (SR 764)	16,150	27	1.53	1.15			Akron
214	East Ave	I-76 WB Off-ramp/Rosemond Ave	16,085	25	1.42	1.32			Akron
214	Manchester Rd (SR 93)	Carnegie Ave	26,255	29	1.01	1.48		1	Akron

Table 5-2

HIGH CRASH INTERSECTIONS

RANKED BY COMPOSITE SCORE

2015-2017

Rank	Street	Intersecting Street(s)	Approach Ave. Daily Traffic	Total Crashes	Crash Rate	Severity Index	Bike Related	Ped Related	Location
216	Copley Rd (SR 162)	Diagonal Rd/ S Portage Path	15,315	18	1.07	1.67	1		Akron
217	Summit St	S Lincoln St	15,190	20	1.20	1.50	2		Kent
218	Vernon Odom Blvd (SR 261)	Frederick Blvd	16,545	19	1.05	1.63			Akron
219	E Glenwood Av	Dan St/Fouse Ave	11,565	17	1.34	1.47			Akron
220	SR 8	Valley View Rd	19,665	26	1.21	1.38			Macedonia
221	S Arlington Rd	Moore Rd	21,740	26	1.09	1.46			Green
222	E Aurora Rd (SR 82)	Hadden Rd/Wilcox Dr	19,855	26	1.20	1.38			Twinsburg
223	E Aurora Rd (SR 82)	Darrow Rd (SR 91)	32,720	40	1.12	1.20			Twinsburg
224	Kent Rd (SR 59)	Fishcreek Rd	28,660	35	1.12	1.29	1		Stow
225	Mogadore Rd	E Howe Rd	8,575	12	1.28	1.67			Portage Co-Brimfield Twp
226	Newton St	Goodyear Blvd	9,700	14	1.32	1.57			Akron
227	SR 82	Mantua Center Rd	9,960	12	1.10	2.33			Portage Co-Mantua Twp
228	Diagonal Rd	East Ave	7,270	10	1.26	1.80			Akron
229	E Tallmadge Ave	Blaine Ave	11,140	14	1.15	1.71			Akron
230	S Hawkins Ave	Stoner St	10,985	13	1.08	2.08		1	Akron
231	SR 5/44	Sandy Lake Rd	7,733	10	1.18	2.20			Portage Co-Rootstown Twp
232	Smith Rd	Riverview Rd	13,965	17	1.11	1.59			Akron
233	Frost Rd	Page Rd	6,367	10	1.43	1.60			Streetsboro
234	E Wilbeth Rd (SR 764)	Allendale Ave/I-77 Ramp	14,080	17	1.10	1.59			Akron
235	Copley Rd (SR 162)	I-77 Ramps/St Micheals Ave	18,765	26	1.27	1.31			Akron
236	Kenmore Blvd	Old Manchester Rd	5,005	12	2.19	1.33			Akron
237	E Main St (SR 59)	Luther Ave/Terrace Dr	21,075	26	1.13	1.38			Kent
238	Darrow Rd (SR 91)	Terex Rd	24,775	30	1.11	1.33			Hudson
239	State St	Robinson Ave	12,411	15	1.10	1.67			Barberton
240	Northampton Rd	Canyon Brook Dr	4,180	14	3.06	1.00			Cuyahoga Falls
241	Southeast Ave	I-76 Ramps	11,950	16	1.22	1.50			Tallmadge
242	State Rd	Sackett Ave	15,765	22	1.27	1.36		1	Cuyahoga Falls
243	Summit St	Powder Mill Rd	9,118	17	1.70	1.24			Portage Co-Franklin Twp
244	Wooster Rd N	W Lake Ave	4,903	10	1.86	1.40		1	Barberton
245	W Market St (SR 18)	Maple St	23,175	29	1.14	1.28		1	Akron
246	W Main St (SR 59)	Sycamore St	15,105	17	1.03	1.59			Ravenna
247	S Arlington St	5th Ave	14,055	21	1.36	1.29			Akron
248	E Waterloo Rd	Brown St	20,745	24	1.06	1.42			Akron
249	Gilchrist Rd	Skeleton Rd	7,014	10	1.30	1.60			Summit Co-Springfield Twp
250	Twinsburg Rd	Valley View Rd	8,745	13	1.36	1.46			Macedonia
251	Darrow Rd (SR 91)	Newton St	17,595	23	1.19	1.35			Akron
252	Brown St	Lovers Lane	8,770	10	1.04	2.20		1	Akron
253	Manchester Rd (SR 93)	E State St/State Mill Rd	16,935	19	1.02	1.53			Summit Co-Coventry Twp
254	W Summit St	Franklin Ave	11,615	17	1.34	1.35			Kent
255	S Main St	Killian Rd	16,480	21	1.16	1.38			Summit Co-Coventry Twp
256	Graybill Rd	Mayfair Rd	8,900	13	1.33	1.46			Green
257	White Pond Dr	Frank Blvd	11,720	17	1.32	1.35			Akron
258	3rd Ave	Fuller St	4,271	11	2.35	1.18			Akron

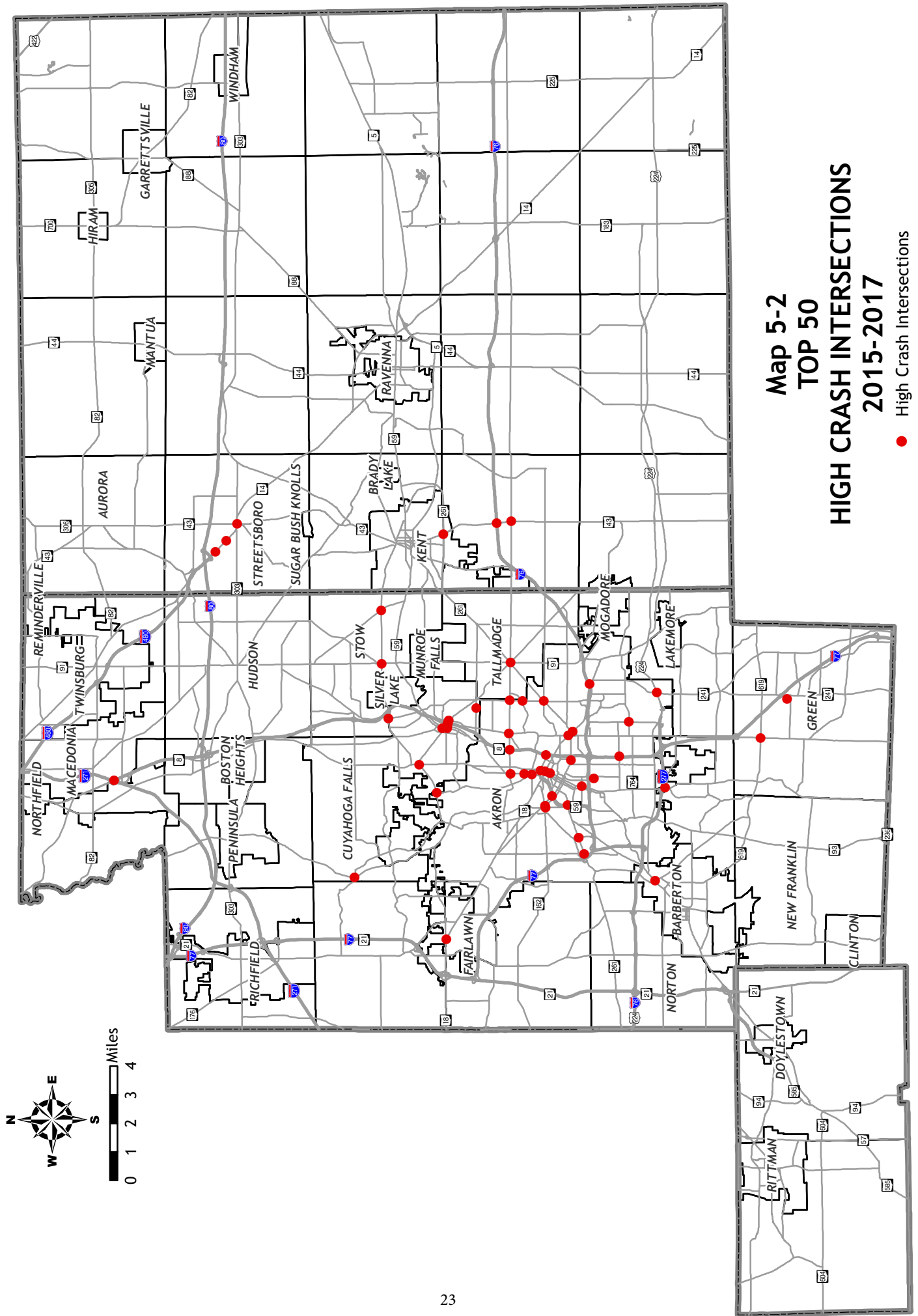
Table 5-2
HIGH CRASH INTERSECTIONS
 RANKED BY COMPOSITE SCORE
 2015-2017

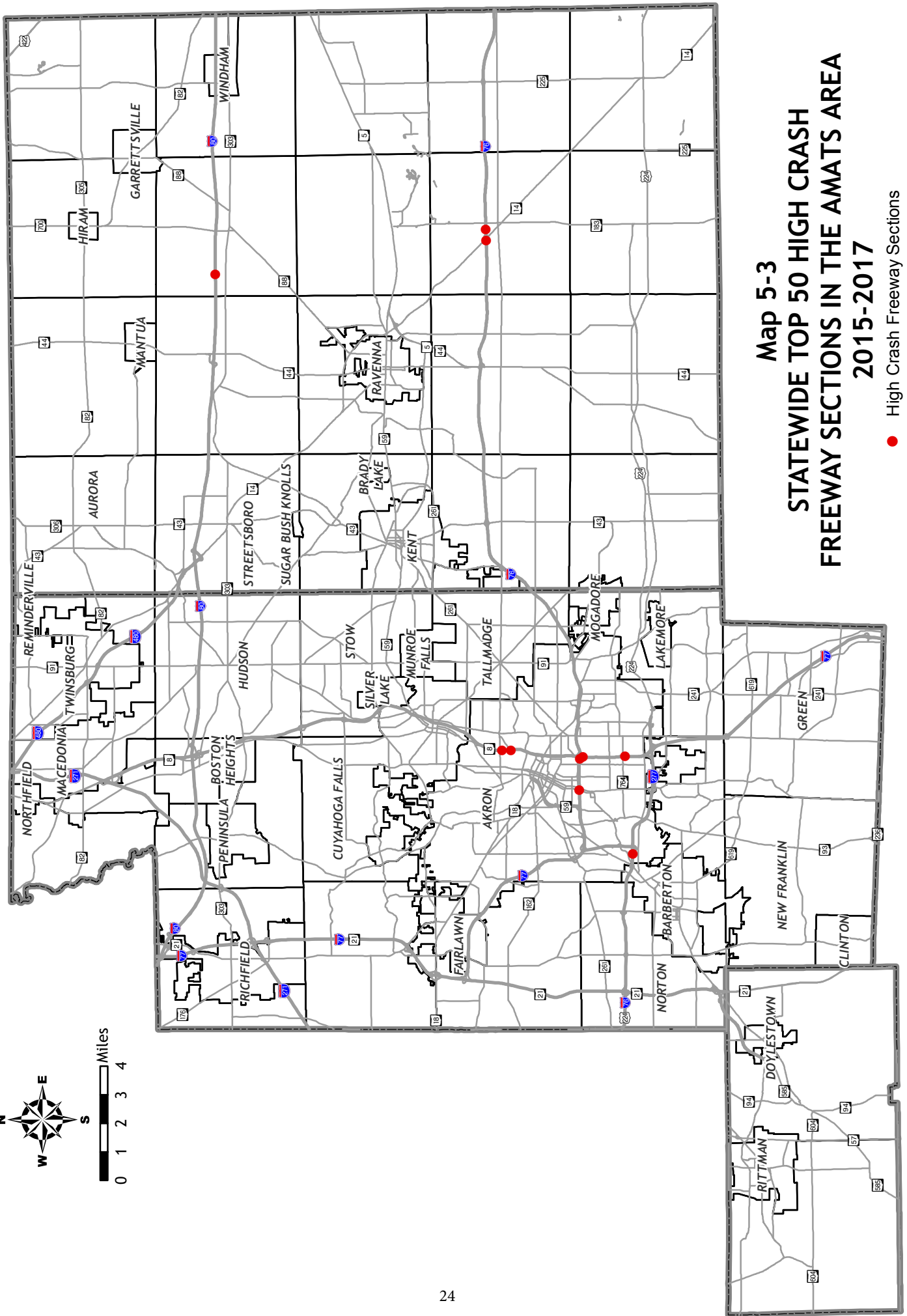
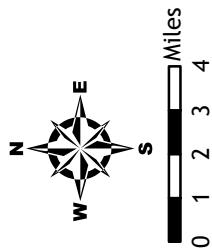
Rank	Street	Intersecting Street(s)	Approach Ave. Daily Traffic	Total Crashes	Crash Rate	Severity Index	Bike Related	Ped Related	Location
259	Rhodes Ave	W Thornton St	10,835	13	1.10	1.62			Akron
260	Seasons Rd	Wyoga Lake Rd	8,021	11	1.25	1.55			Cuyahoga Falls
261	E Wilbeth Rd (SR 764)	Virginia Ave	12,825	14	1.00	1.71			Akron
262	E Thorton St	Sherman St	3,820	10	2.39	1.20			Akron
263	Canton Rd (SR 91)	Gilchrist Rd	25,365	29	1.04	1.28			Akron
264	W Exchange St (SR 261)	W Bowers St	11,880	19	1.46	1.11		1	Akron
265	SR 261	Mogadore Rd	14,930	18	1.10	1.44	1		Kent
266	S Hawkins Ave	Courtland Ave	9,075	10	1.01	2.20			Akron
267	S Main St	Thornton St	20,620	25	1.11	1.32			Akron
268	5th St NE (SR 619)	Robinson Ave	20,800	23	1.01	1.43		1	Barberton
269	E Streetsboro Rd (SR 303)	Oviatt St	11,800	16	1.24	1.38			Hudson
270	Dart Ave	Euclid Ave	8,240	11	1.22	1.55			Akron
270	E Aurora Rd (SR 82)	N Bedford Rd/Valley View Rd	18,050	24	1.21	1.25		1	Macedonia
272	S Water St (SR 43)	Bowman Dr/Cherry St	18,065	22	1.11	1.36			Kent
273	5th Ave SE (SR 619)	Conservatory Dr	10,501	12	1.04	1.67			Barberton
274	Russell Ave	Boulevard St	10,430	14	1.23	1.43		1	Akron
275	Canton Rd (SR 91)	Albrecht Ave	23,845	28	1.07	1.21		1	Akron
276	Ledge Rd	N Bedford Rd	10,340	17	1.50	1.12			Macedonia
277	Glenwood Dr	Liberty Rd	12,520	19	1.39	1.11			Twinsburg
278	S Main St	Mill St	12,135	16	1.20	1.38		1	Akron
279	E Summit St	Campus Center Dr	15,865	18	1.04	1.44		1	Kent
280	Brittain Rd	Goodyear Blvd	13,055	17	1.19	1.35			Akron
280	Main St	Huddleston Ave	13,810	18	1.19	1.33			Cuyahoga Falls
282	Brittain Rd	Independence Ave	13,105	17	1.18	1.35			Akron
283	N Arlington St	Hazel St	7,526	12	1.46	1.33			Akron
284	N Howard St	North St	6,425	10	1.42	1.40			Akron
285	W Market St (SR 18)	Conger St	10,030	15	1.37	1.27			Akron
286	Fishcreek Rd	Stow Rd	20,670	23	1.02	1.35	1		Stow
287	Brookwall Dr	Flight Memorial Dr	4,740	10	1.93	1.00			Fairlawn
288	Eastwood Ave	Ute Ave	7,415	11	1.35	1.36		1	Akron
289	2nd St	Oakwood St	5,540	10	1.65	1.20			Cuyahoga Falls
290	S Broadway St (SR 261)	E Cedar St (SR 261)	15,520	18	1.06	1.33	1		Akron
291	Grant St	Cole Ave	5,695	10	1.60	1.20			Akron
292	S Arlington Rd	Boettler Rd	18,685	21	1.03	1.29			Green
293	Mayfair Rd	Wise Rd	6,035	10	1.51	1.20			Green
294	E Market St (SR 18)	Carroll St (W Jct)	14,635	16	1.00	1.38		1	Akron
295	E Wilbeth Rd (SR 764)	Hammel St	11,890	13	1.00	1.46			Akron
296	Manchester Rd (SR 93)	Nimisila Rd	11,740	15	1.17	1.27			New Franklin
297	Kelly Ave	3rd Ave	11,155	14	1.15	1.29			Akron
298	Tallmadge Rd	Cascades Blvd	11,125	15	1.23	1.00			Portage Co-Brimfield Twp
299	S Main St	Bowery St	10,535	13	1.13	1.31		1	Akron
300	E Exchange St	Beaver St	12,680	15	1.08	1.27			Akron
301	W Market St (SR 18)	Pershing Ave	14,120	16	1.03	1.25		1	Akron

Table 5-2
HIGH CRASH INTERSECTIONS
 RANKED BY COMPOSITE SCORE
 2015-2017

Rank	Street	Intersecting Street(s)	Approach Ave. Daily Traffic	Total Crashes	Crash Rate	Severity Index	Bike Related	Ped Related	Location
301	S Hawkins Ave	Diagonal Rd	14,235	16	1.03	1.25			Akron
303	E Buchtel Ave	S College St	10,185	12	1.08	1.33		1	Akron
304	Northeast Ave (SR 261)	Kent Dr	7,760	11	1.29	1.00			Tallmadge
305	Carroll St	Spicer St	8,837	10	1.03	1.40			Akron
306	Barlow Rd	Stow Rd	7,223	10	1.26	1.20			Hudson
307	S Broadway St (SR 261)	E Buchtel Ave	14,150	16	1.03	1.13			Akron
308	Hazel St	Eastwood Ave/Garry Rd	7,501	10	1.22	1.20			Akron
309	Kelly Ave	Archwood Ave	9,910	11	1.01	1.36			Akron
310	S Broadway St	E South St (N Jct)	11,805	13	1.01	1.31			Akron
311	E Wilbeth Rd (SR 764)	Sylvan Ave	10861	12	1.01	1.33			Akron
312	Wolf Ledges Pkwy	E Thornton St	12145	14	1.05	1.14			Akron
313	Buchtel Ave	S Union St	7903	10	1.16	1.20			Akron
314	Olde Eight Rd	Highland Rd	12395	14	1.03	1.14			Northfield Center Twp
315	S Broadway St	E South St (S Jct)	12630	14	1.01	1.14			Akron
316	Vernon Odom Blvd (SR 261)	Rand St/Rhodes Ave	9990	11	1.01	1.00			Akron

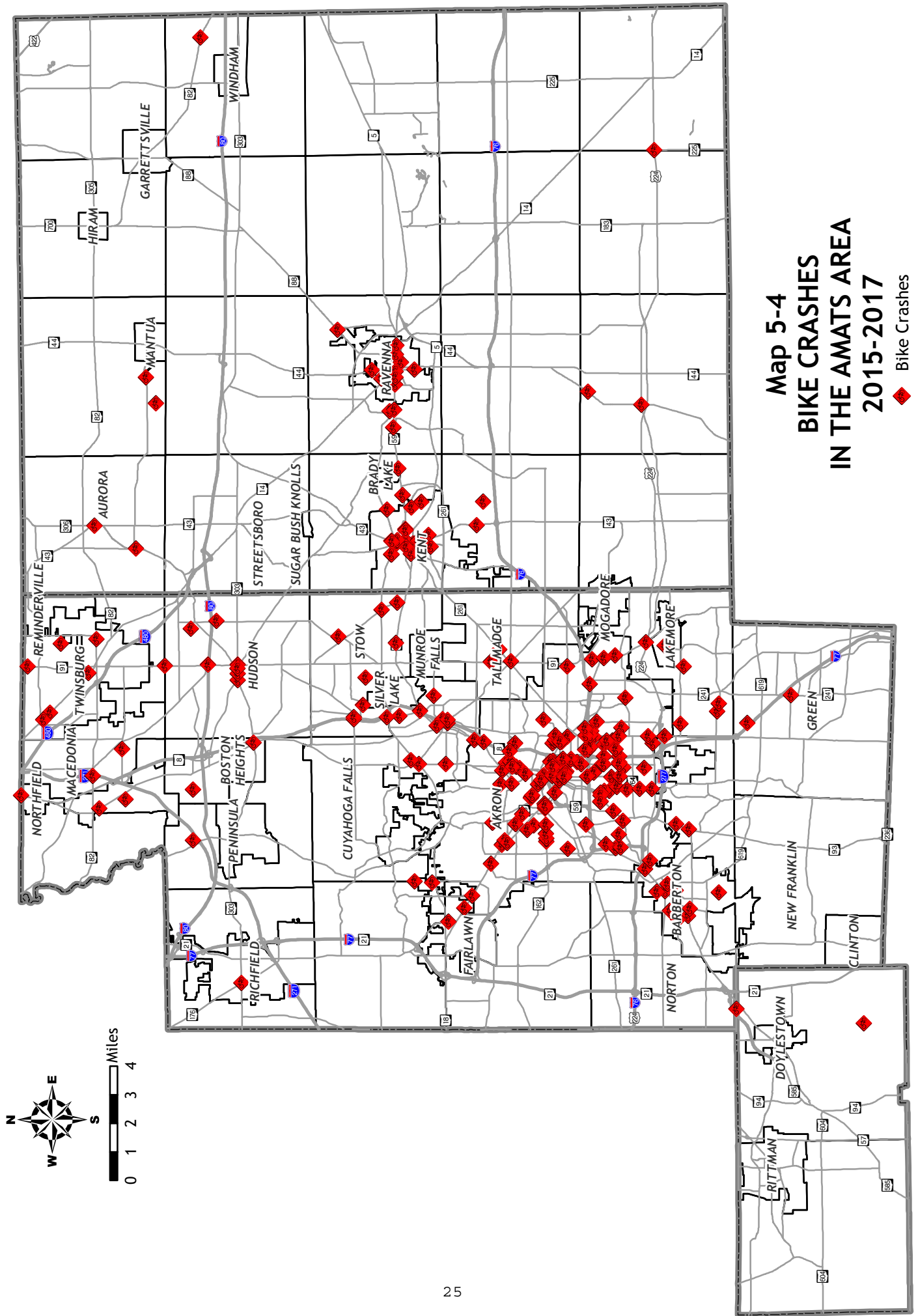
* These locations had a fatality.

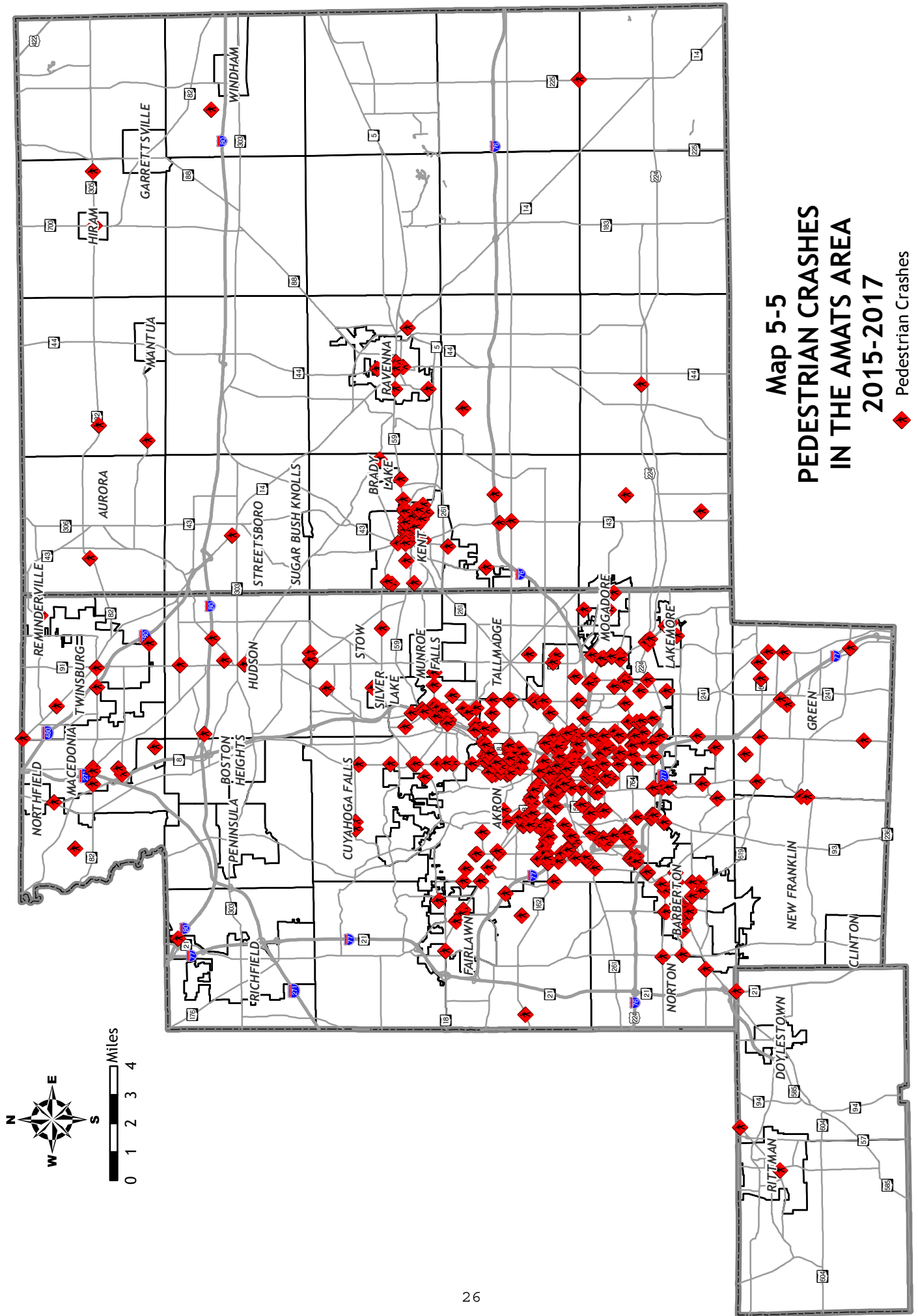




Map 5-3
STATEWIDE TOP 50 HIGH CRASH
FREEWAY SECTIONS IN THE AMATS AREA
2015-2017

● High Crash Freeway Sections





APPENDIX A – Crash Formulas

Roadway Sections

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

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

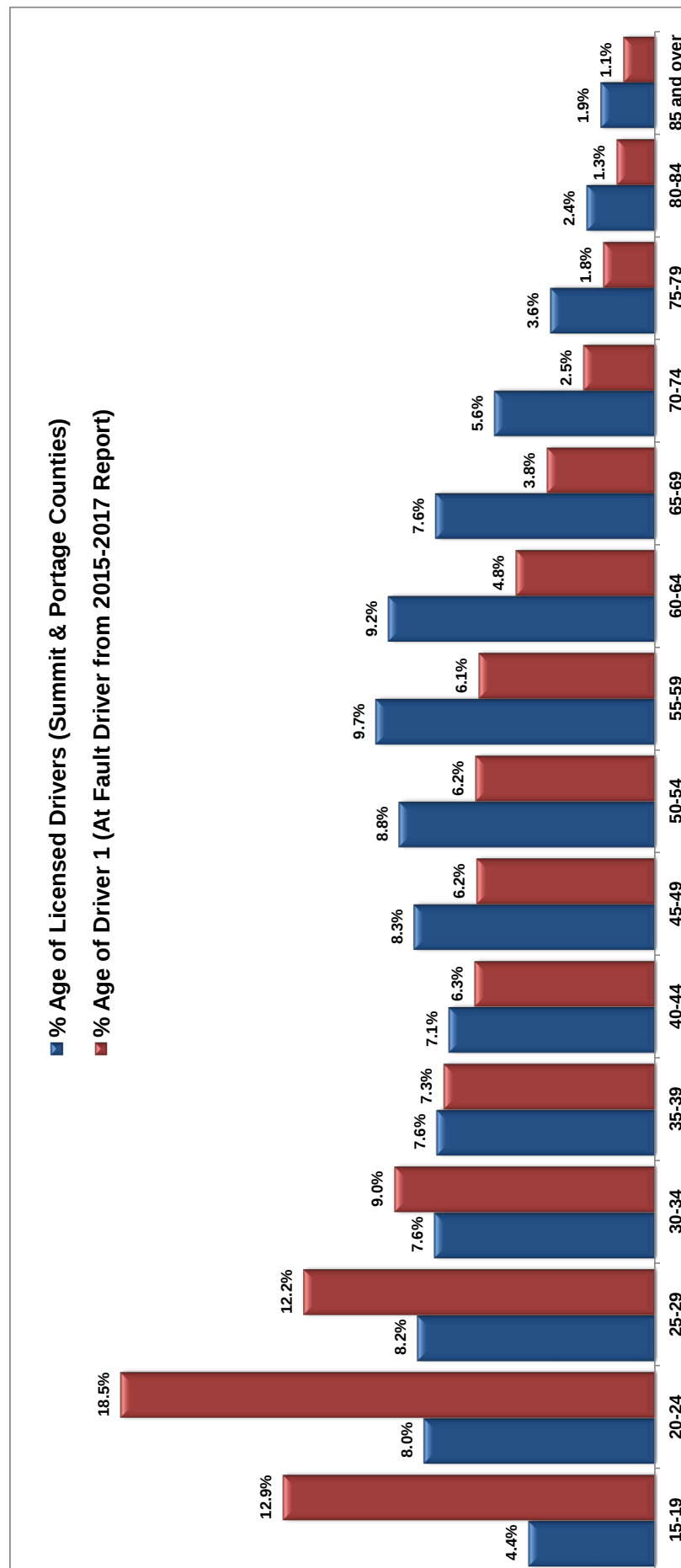
Intersections

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

Roadway Sections and Intersections

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

APPENDIX B Age of Licensed Drivers in Summit and Portage County and Age of Drivers at Fault



APPENDIX C – Bicycle and Pedestrian Safety Tips

Safety Tips for Drivers Encountering Bike Riders

- Bicyclists are required to ride as far to the right of the road as practicable, but are legally permitted to utilize the full traffic lane when necessary to protect their own safety.
- Bicyclists should be treated like any other slow-moving vehicle: they should only be passed when there are no oncoming cars and sight lines are clear. When passing a bicyclist, ensure there is a minimum of 3 feet between your car and the bicycle.
- Beware of bicyclists who might be in your blind spot or are otherwise difficult to see.
- Exercise extra caution when approaching children on bikes and at multi-use path crossings.

Safety Tips for Bike Riders

- Bicyclists are required to follow the same rules of the road as other drivers: stop at stop signs and red lights, and ride in the same direction as other traffic.
- Bicyclists should position themselves at least a few feet from the curb, and should especially avoid riding in the gutter. When parked cars are present, steer clear of the “door zone”.
- Bicyclists should not weave in and out of traffic or pass queued traffic at a stop sign or traffic light, unless a bike lane is provided.
- In most cases, bicyclists should not ride on sidewalks. This is especially important in urban areas, as motorists are less likely to see bicyclists behind parked cars, street trees, and other obstacles.
- Bicyclists should yield to pedestrians at crosswalks and on multi-use paths and sidewalks (where sidewalk riding is permitted).
- Bicyclists can promote safe interactions with motorists by being courteous yet assertive. Examples include riding single file or pulling over when cars are backed up behind your group, using hand signals and making eye contact, and using the full lane when it is unsafe for cars to pass.

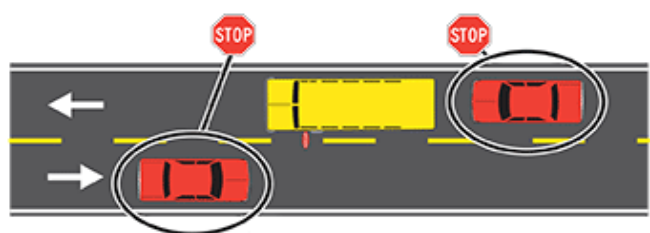
Safety Tips for Drivers Encountering Pedestrians

- Drivers must yield the right of way to pedestrians crossing in marked or unmarked crosswalks (there is technically a crosswalk at every street or road intersection, even if it's not marked).
- At signals, drivers must yield to pedestrians when the WALK signal is displayed.
- Distracted driving is an increasingly common cause of crashes and poses particular concerns for pedestrians, who are often less visible and more susceptible to injury than other motorists.

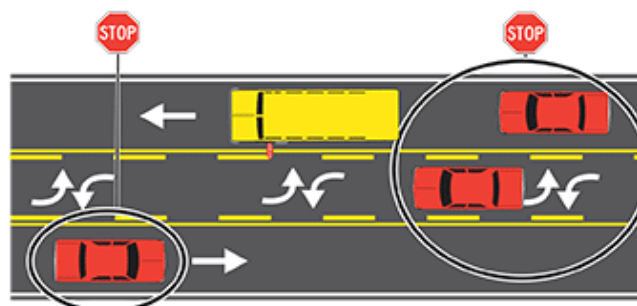
Safety Tips for Pedestrians

- Pedestrians must cross at intersections or midblock crosswalks.
- Pedestrians must obey WALK/DON'T WALK signals where provided, and otherwise cross with the green light. A flashing DON'T WALK signal indicates that it is too late to begin crossing, but that if already in the crosswalk, you should continue walking to the other side.
- Pedestrian distraction is just as dangerous as driver distraction. Pedestrians should turn off their handheld devices, mp3 players, etc. when crossing the street or walking in busy areas.
- Pedestrians generally should not assume that they are visible to drivers, or that drivers will follow the rules of the road.
- Pedestrians should give drivers plenty of time to stop before entering a crosswalk.
- When a sidewalk is not available, pedestrians should walk facing traffic.
- At night, pedestrians should wear reflective clothing and also consider using flashing lights.

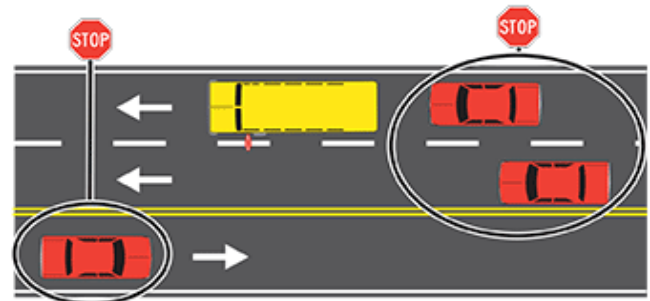
APPENDIX D School Bus Stopping Laws



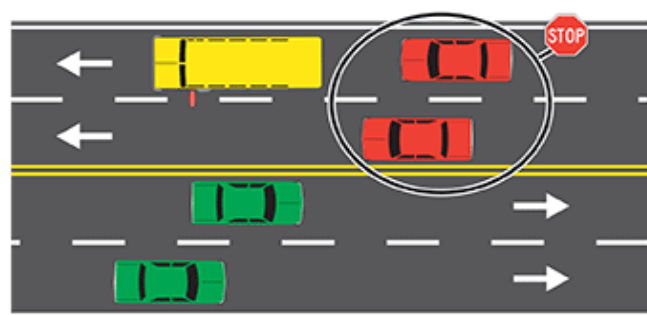
TWO-LANE HIGHWAY



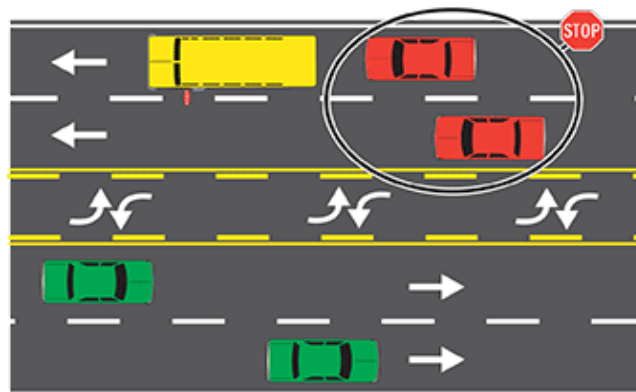
TWO-LANE HIGHWAY WITH CENTER TURN LANE



THREE-LANE HIGHWAY



FOUR-LANE HIGHWAY



FOUR-LANE HIGHWAY WITH CENTER TURN LANE