CRASH SUMMARY REPORT

SFY 2021

Prepared By:

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Metropolitan Planning Organization
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INTRODUCTION

One of the main objectives of the Erie County Regional Planning Commission Metropolitan Planning Organization (ERPC) is to improve the safety of the existing transportation system. Through the study of traffic crash data, the identification of improvements needed to improve safety and level of service on existing roadways are determined. The primary purpose of this report is to summarize crash data that occurred in the ERCP MPO area (all of Erie County and the Lorain County portion of the City of Vermilion) during the 2017, 2018, and 2019 years. All data used to generate this report was supplied from the Ohio Department of Transportation's Transportation Information Mapping System (TIMS) and GIS Crash Analysis Tool (GCAT).

Traffic counts are available at some locations and efforts to attain traffic volumes for every roadway in the county are ongoing. Crash rate tables are updated as additional traffic counts become available. As some traffic volume data is not available at this time, the index list of crash related intersections is ranked upon the frequency of crashes at a particular location. It should be noted that this table is preliminary in the sense that these listings have been generated only as a tool as a place to start for any community evaluating crash locations. It is possible that as more detailed analysis of a specific location is done, it will be discovered that the problem is either better or worse than this listing has indicated.

Also contained in this report is an analysis of ERPC regional crash data trends for the years of 2018 and 2019.

SOURCE OF DATA

ERPC maintains a computer file of traffic crashes that is received from the Ohio Department of Transportation's TIMS-GCAT program. The TIMS-GCAT system is populated with traffic crash records that are received from the Ohio Department of Public Safety (ODPS). The crash data contains crash records inclusive of all those located in the ERPC MPO region.

The data used in the creation of this report is as follows:

1. Total number of crashes for the last three years
2. Total number of fatal crashes for the last three years
3. Total number of pedestrian and bicycle related crashes for the last three years
4. Frequency Index Table (Number of crashes at particular intersection location)
5. Crash Rate Index Table (Crash Rate calculated where traffic counts available)
6. Various crash maps

METHODOLOGY

All intersection locations having more than 9 crashes in a three-year period were considered high crash locations.

1. Frequency:
Intersections are ranked according to the total number of crashes experienced at each location during a full three-year study period. Locations with 9 or more crashes during the three-year period are listed. The ranking shown is based upon data for years 2017-2019.

2. Crash Rate:
Assessing intersection safety is commonly in terms of "Crash Rate" and expressed as "crashes per million vehicles entering the intersection". The crash rate provides a basis for identifying "high crash" sites. Typically, optimal levels for crash rates is 1.0 or below.

The crash rate takes into account the traffic volume at the intersection, which is one of the predictors of the quantitative risk of a crash. Crash Rates were calculated where Average Daily Traffic (ADT) counts were available and shown in the corresponding table for crash years 2017-2019.

The following equation was used to calculate crash rates:

$$R = \frac{1{,}000{,}000 \times C}{365 \times N \times V}$$

Where:

R = Crash rate expressed as accidents per million entering vehicles (MEV).
C = Total number of crashes in the study period.
N = Number of years of data.
V = Traffic volumes entering the intersection daily

Additional Traffic Crash Facts

Additional traffic crash tables and graphs have been included in the report which summarize crash data across the ERPC region between years 2017-2019. The tables and graphs represent a summary of the information available from ODOT TIMS-GCAT software. The data provides a region wide analysis of information such as crashes by time of day, month, week, lighting and weather conditions, type of vehicles involved in crashes, speed, alcohol related crashes and type of crash.

Below is a summary of 2017 – 2019 crash statistics for the ERPC MPO region:

6,978 Total Crashes (26 Fatal, 1,495 Injury, 5,457 Property Damage Only)

- 2,424 occurred in 2017
- 2,253 occurred in 2018
- 2,301 occurred in 2019

Number of fatalities by year:	Number of incapacitating injuries by year:
2017 – 8 fatalities	2017 – 57 injuries
2018 – 7 fatalities	2018 – 52 injuries
2019 – 11 fatalities	2019 – 45 injuries

31.1% of total crashes occurred on Friday and Saturdays

21.2% of total crashes were rear-end type crashes

19.4% of total crashes involved people 65 years old and over

32.0% of total crashes involved young driver (15 years old – 25 years old)

11.9% of total crashes were speed related

5.8% of total crashes were distracted driving related

Of these crashes, drivers were distracted by:

6.3% -Manually operating an electronic communication device (texting, typing, dialing)

0.3% - Talking on hands-free communication device

1.2% - Talking on hand-held communication device

11.1% - Other activity with electronic device

2.2% - Passenger

35.4% - Other distraction inside the vehicle

67.1% - Other distraction outside vehicle

6.3% of total crashes indicated drugs and/or alcohol suspected

Of these crashes –

79.2% - alcohol suspected

20.8% - drugs suspected

1.7% of total crashes were motorcycle related

0.90% of total crashes were bicycle and pedestrian related

ERPC MPO Region – Comparison Chart

	Number of Crashes			
Category	Years 2016-2018	Years 2017-2019	Difference	Percent Change
School Zone	21	27	6	↑ 28.6%
Speed	822	830	8	↑ 1.0%
65 yrs and Older	1355	1355	0	↔ 0.0%
Alcohol	349	347	-2	↓ -0.6%
Motorcycle	122	118	-4	↓ -3.3%
Fatalities	27	26	-1	↓ -3.7%
Youth (15yrs -25yrs)	2409	2235	-174	↓ -7.2%
Drugs	100	91	-9	↓ -9.0%
Bicycle	25	22	-3	↓ -12.0%
Pedestrian	49	41	-8	↓ -16.3%
Distracted	491	407	-84	↓ -17.1%
Serious Injuries	213	154	-59	↓ -27.7%
Work Zone	247	134	-113	↓ -45.7%

CONCLUSION

In summary, the creation of this report is to assist in identifying those high crash locations within the ERPC MPO Region pursuant to 23 U.S.C 409. The frequency table was created by three years' worth of intersection only traffic crash data that was obtained from the Ohio Department of Transportation and Public Safety. The creation of the crash rate table included with this report was done by the analysis of crash data and available traffic count data. The data generated here will be incorporated in the ERPC MPO's Spot Safety Improvement Program, which allows for further study and priority groupings of specific high crash location areas. Again, it is important to note that this report is preliminary in the sense that these listings have been generated only as a tool as a place to start for any community evaluating crash locations. It is possible that as more detailed analysis of a specific location is done, it will be discovered that the problem is either better or worse than this listing has indicated.

TABLE 1: HIGH CRASH INTERSECTION LOCATIONS BY FREQUENCY (YEARS 2017 - 2019)

RANK	JURISDICTION	INTERSECTION	NUMBER OF CRASHES
1	PERKINS TOWNSHIP	US 250 @ STRUB RD	51
2	PERKINS TOWNSHIP	SR 4 @ PERKINS AVE	38
3	SANDUSKY	PERKINS AVE @ COLUMBUS AVE	32
3	PERKINS TOWNSHIP	US 250 @ HULL RD	32
3	PERKINS TOWNSHIP	SR 4 @ STRUB RD	32
4	SANDUSKY	US 250 @ PERKINS AVE	30
5	HURON TOWNSHIP	US 6 @ PERKINS AVE	29
6	MILAN TOWNSHIP	US 250 @ MASON RD/KELLEY RD	27
7	PERKINS TOWNSHIP	US 250 @ BOGART RD	25
7	PERKINS TOWNSHIP	US 250 @ MALL BLVD	25
8	PERKINS TOWNSHIP	US 250 @ FUN DR	24
9	PERKINS TOWNSHIP	PERKINS AVE @ CAMPBELL ST	23
9	MILAN TOWNSHIP	US 250 @ SR 13	23
10	PERKINS TOWNSHIP	STRUB RD @ COLUMBUS AVE	20
11	SANDUSKY	COLUBMUS AVE @ MONROE ST	19
11	MARGARETTA TOWNSHIP	SR 269 @ PORTLAND RD	19
12	SANDUSKY	TIFFIN AVE @ VENICE RD/SANFORD ST	18
12	PERKINS TOWNSHIP	SR 4 @ SR 2 (EB Ramps)	18
13	GROTON TOWNSHIP	SR 4 @ SR 99	16
13	PERKINS TOWNSHIP	US 250 @ KALAHARI DR	16
13	PERKINS TOWNSHIP	US 250 @ CROSSINGS RD	16
13	SANDUSKY	CEDAR POINT DR @ FIFTH ST/RIVER AVE	16
13	HURON	RYE BEACH RD @ SR 2 (WB Ramps)	16
14	PERKINS TOWNSHIP	US 250 @ SR 2 (WB Ramps)	15
14	PERKINS TOWNSHIP	US 250 @ DEWITT AVE	15
15	PERKINS TOWNSHIP	US 250 @ PARK PLACE/BAYWINDS	14
15	MILAN TOWNSHIP	US 250 @ SR 113 West	14
15	PERKINS TOWNSHIP	SR 4 @ BOGART RD	14
16	SANDUSKY	US 6 @ CEDAR POINT DR	13
16	SANDUSKY	SR 4 @ TYLER ST	13
16	MILAN TOWNSHIP	US 250 @ SR 113 East	13
16	SANDUSKY	PERKINS AVE @ 52ND ST	13
16	SANDUSKY	COLUMBUS AVE @ PARISH ST	13
16	SANDUSKY	CEDAR POINT DR @ FIRST ST	13
17	HURON TOWNSHIP	US 6 @ CAMP RD	12
17	SANDUSKY	PERKINS AVE @ CALDWELL ST	12
17	PERKINS TOWNSHIP	US 250 @ SR 2 (EB Ramps)	12
17	VERMILION TOWNSHIP	SR 60 @ SAILORWAY DR	12
17	HURON	US 6 @ RYEBEACH RD	12
17	SANDUSKY	SR 4 @ OSBORNE ST	12
17	HURON	US 6 @ SR 13	12
17	SANDUSKY	SCOTT ST @ WARREN ST	12
18	PERKINS TOWNSHIP	CAMPBELL ST @ STRUB RD	11
18	MARGARETTA TOWNSHIP	SR 4 @ MASON	11
19	SANDUSKY	MONROE ST @ WAYNE ST	10
19	SANDUSKY	WARREN ST @ SCOTT ST	10
19	SANDUSKY	MONROE ST @ CAMP ST	10
19	SANDUSKY	MONROE ST @ HANCOCK ST	10
19	SANDUSKY	SR 4 @ PEIRCE ST	10
19	MARGARETTA TOWNSHIP	US 6 @ SR 269 (North)	10
19	VERMILION	US 6 @ SUNNYSIDE RD	10
20	PERKINS TOWNSHIP	US 250 @ S. MEIJER DRIVE	9
20	SANDUSKY	COLUMBUS AVE @ FARWELL ST	9
20	BERLIN TOWNSHIP	SR 113 @ SR 61/Ceylon Road	9
20	SANDUSKY	MILAN RD @ SCOTT ST	9
20	HURON	US 6 @ WILLIAMS	9
20	PERKINS TOWNSHIP	COLUMBUS AVE @ BOGART RD	9

Note: Intersection related crashes with 9 or more crashes over the years 2017-2019 are listed

Source: Ohio Department of Transportation TIMS/GCAT System

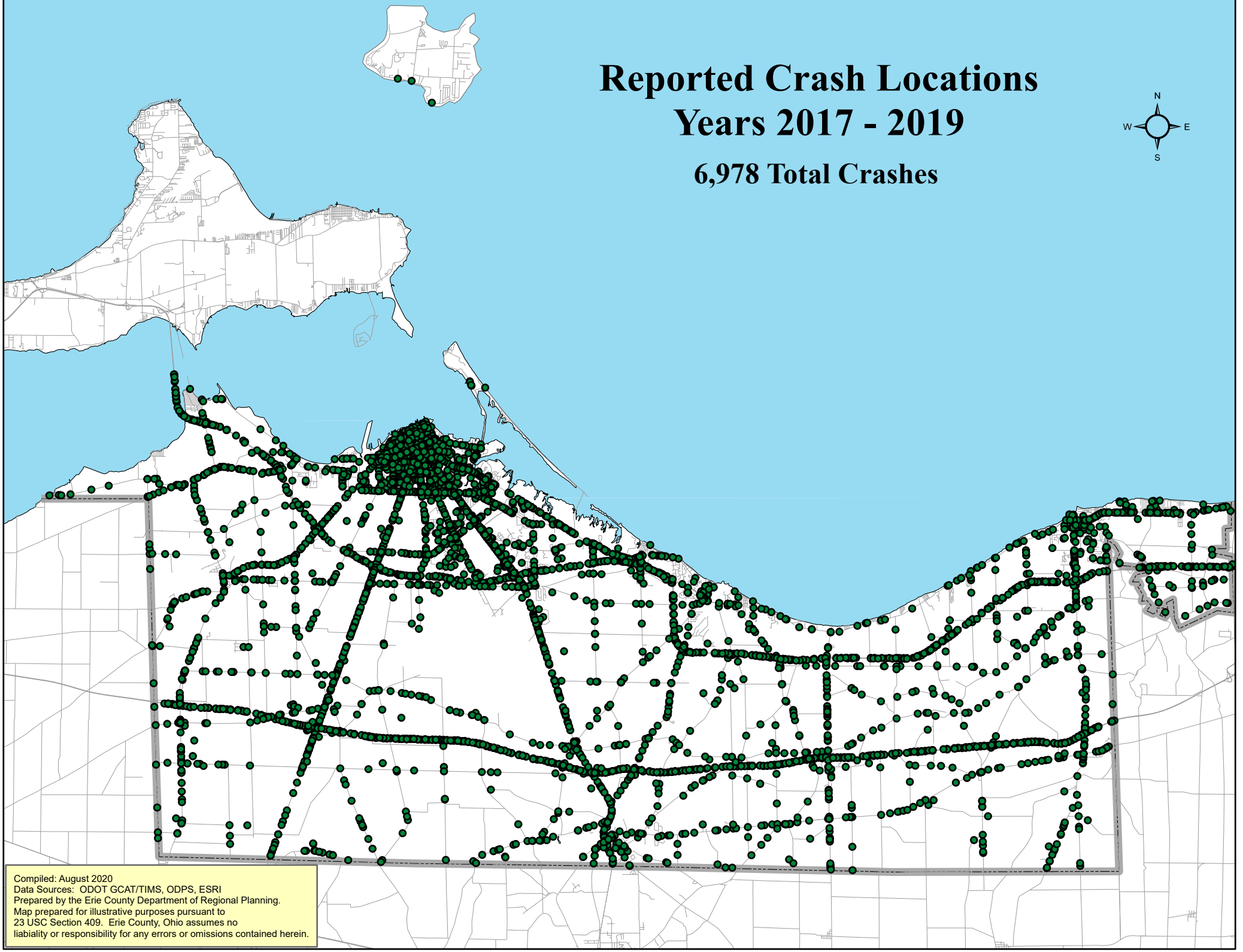
TABLE 2: CRASH RATES FOR HIGH CRASH FREQUENCY LOCATIONS (where ADTs Available)

RANK	JURISDICTION	INTERSECTION	NUMBER OF CRASHES	CRASH RATE
1	PERKINS TOWNSHIP	US 250 @ STRUB RD	51	1.41
2	PERKINS TOWNSHIP	SR 4 @ PERKINS AVE	38	
3	SANDUSKY	PERKINS AVE @ COLUMBUS AVE	32	1.00
3	PERKINS TOWNSHIP	US 250 @ HULL RD	32	
3	PERKINS TOWNSHIP	SR 4 @ STRUB RD	32	1.47
4	SANDUSKY	US 250 @ PERKINS AVE	30	0.82
5	HURON TOWNSHIP	US 6 @ PERKINS AVE	29	1.77
6	MILAN TOWNSHIP	US 250 @ MASON RD/KELLEY RD	27	
7	PERKINS TOWNSHIP	US 250 @ BOGART RD	25	
7	PERKINS TOWNSHIP	US 250 @ MALL BLVD	25	
8	PERKINS TOWNSHIP	US 250 @ FUN DR	24	0.59
9	PERKINS TOWNSHIP	PERKINS AVE @ CAMPBELL ST	23	
9	MILAN TOWNSHIP	US 250 @ SR 13	23	0.85
10	PERKINS TOWNSHIP	STRUB RD @ COLUMBUS AVE	20	
11	SANDUSKY	COLUBMUS AVE @ MONROE ST	19	
11	MARGARETTA TOWNSHIP	SR 269 @ PORTLAND RD	19	
12	SANDUSKY	TIFFIN AVE @ VENICE RD/SANFORD ST	18	0.86
12	PERKINS TOWNSHIP	SR 4 @ SR 2 (EB Ramps)	18	1.12
13	GROTON TOWNSHIP	SR 4 @ SR 99	16	1.11
13	PERKINS TOWNSHIP	US 250 @ KALAHARI DR	16	
13	PERKINS TOWNSHIP	US 250 @ CROSSINGS RD	16	0.40
13	SANDUSKY	CEDAR POINT DR @ FIFTH ST/RIVER AVE	16	
13	HURON	RYE BEACH RD @ SR 2 (WB Ramps)	16	1.00
14	PERKINS TOWNSHIP	US 250 @ SR 2 (WB Ramps)	15	0.67
14	PERKINS TOWNSHIP	US 250 @ DEWITT AVE	15	
15	PERKINS TOWNSHIP	US 250 @ PARK PLACE/BAYWINDS	14	
15	MILAN TOWNSHIP	US 250 @ SR 113 West	14	0.51
15	PERKINS TOWNSHIP	SR 4 @ BOGART RD	14	
16	SANDUSKY	US 6 @ CEDAR POINT DR	13	
16	SANDUSKY	SR 4 @ TYLER ST	13	
16	MILAN TOWNSHIP	US 250 @ SR 113 East	13	0.48
16	SANDUSKY	PERKINS AVE @ 52ND ST	13	
16	SANDUSKY	COLUMBUS AVE @ PARISH ST	13	
16	SANDUSKY	CEDAR POINT DR @ FIRST ST	13	
17	HURON TOWNSHIP	US 6 @ CAMP RD	12	
17	SANDUSKY	PERKINS AVE @ CALDWELL ST	12	
17	PERKINS TOWNSHIP	US 250 @ SR 2 (EB Ramps)	12	0.37
17	VERMILION TOWNSHIP	SR 60 @ SAILORWAY DR	12	0.93
17	HURON	US 6 @ RYEBEACH RD	12	0.44
17	SANDUSKY	SR 4 @ OSBORNE ST	12	
17	HURON	US 6 @ SR 13	12	
17	SANDUSKY	SCOTT ST @ WARREN ST	12	
18	PERKINS TOWNSHIP	CAMPBELL ST @ STRUB RD	11	0.78
18	MARGARETTA TOWNSHIP	SR 4 @ MASON	11	0.67
19	SANDUSKY	MONROE ST @ WAYNE ST	10	
19	SANDUSKY	MONROE ST @ CAMP ST	10	0.92
19	SANDUSKY	MONROE ST @ HANCOCK ST	10	
19	SANDUSKY	SR 4 @ PEIRCE ST	10	0.74
19	MARGARETTA TOWNSHIP	US 6 @ SR 269 (North)	10	1.03
19	VERMILION	US 6 @ SUNNYSIDE RD	10	0.66
20	PERKINS TOWNSHIP	US 250 @ S. MEIJER DRIVE	9	
20	SANDUSKY	COLUMBUS AVE @ FARWELL ST	9	
20	BERLIN TOWNSHIP	SR 113 @ SR 61/Ceylon Road	9	1.17
20	SANDUSKY	MILAN RD @ SCOTT ST	9	
20	HURON	US 6 @ WILLIAMS	9	0.84
20	PERKINS TOWNSHIP	COLUMBUS AVE @ BOGART RD	9	

Note: Intersection related crashes with 9 or more crashes over the years 2017-2019 are listed
Source: Ohio Department of Transportation TIMS/GCAT/TMMS Systems

Reported Crash Locations
Years 2017 - 2019

6,978 Total Crashes



Compiled: August 2020
Data Sources: ODOT GCAT/TIMS, ODPS, ESRI
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Fatal Crash Locations
Years 2017 - 2019

26 Fatal Crashes

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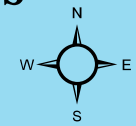
Pedestrian Involved Crash Locations
Years 2017 - 2019

41 Total Crashes



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Bicycle Involved Crash Locations
Years 2017 - 2019

22 Crashes

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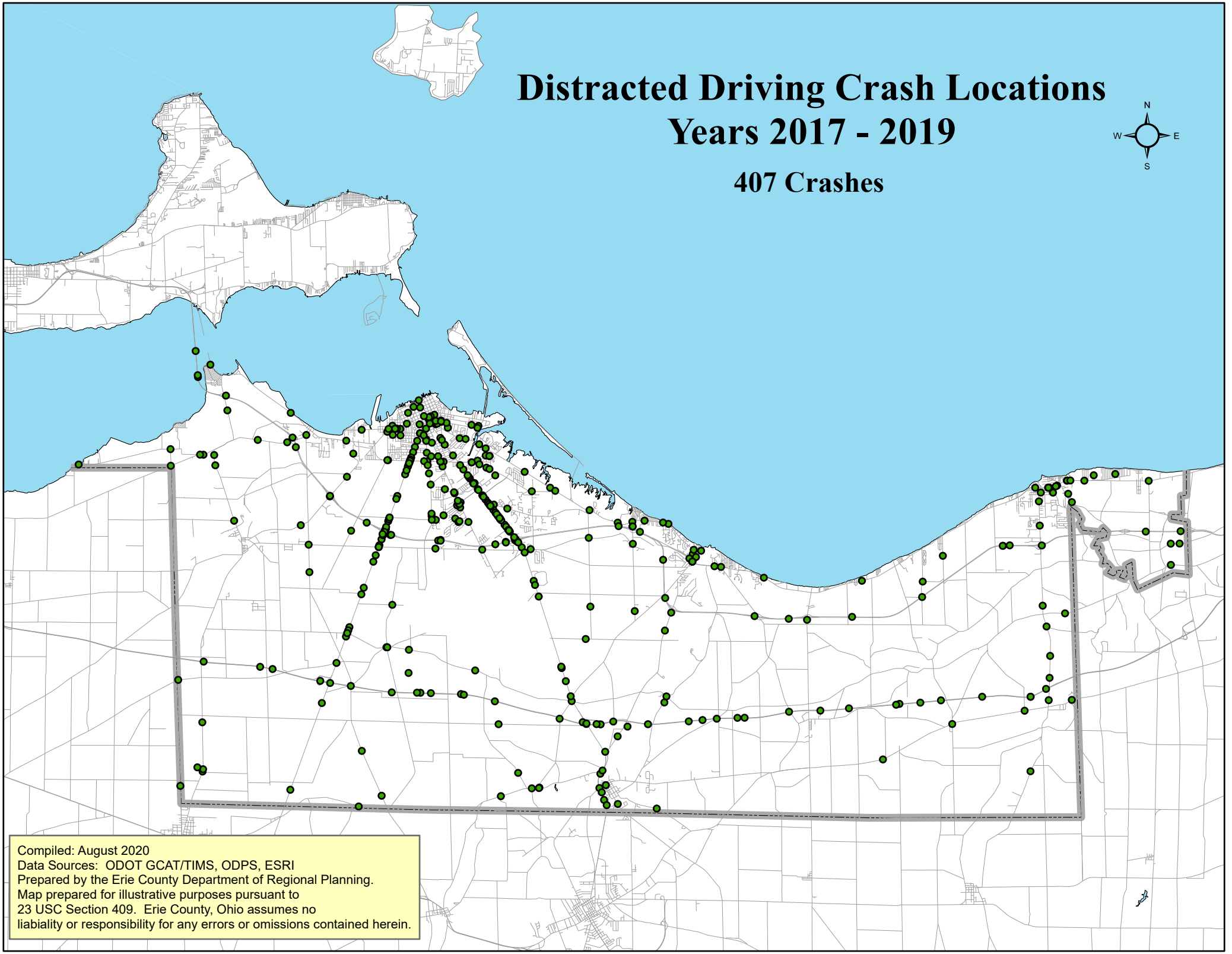
Distracted Driving Crash Locations
Years 2017 - 2019

407 Crashes



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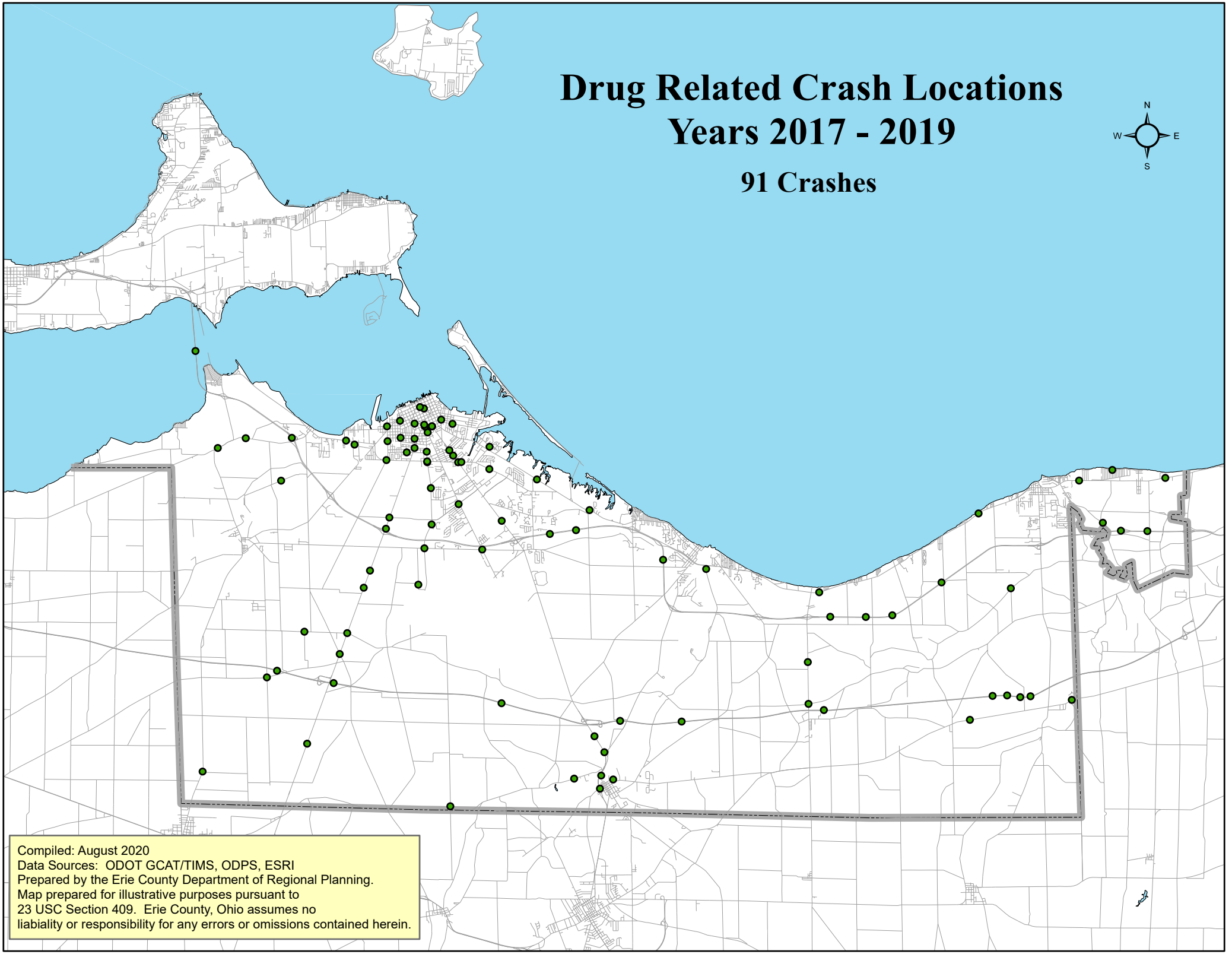
Drug Related Crash Locations
Years 2017 - 2019

91 Crashes



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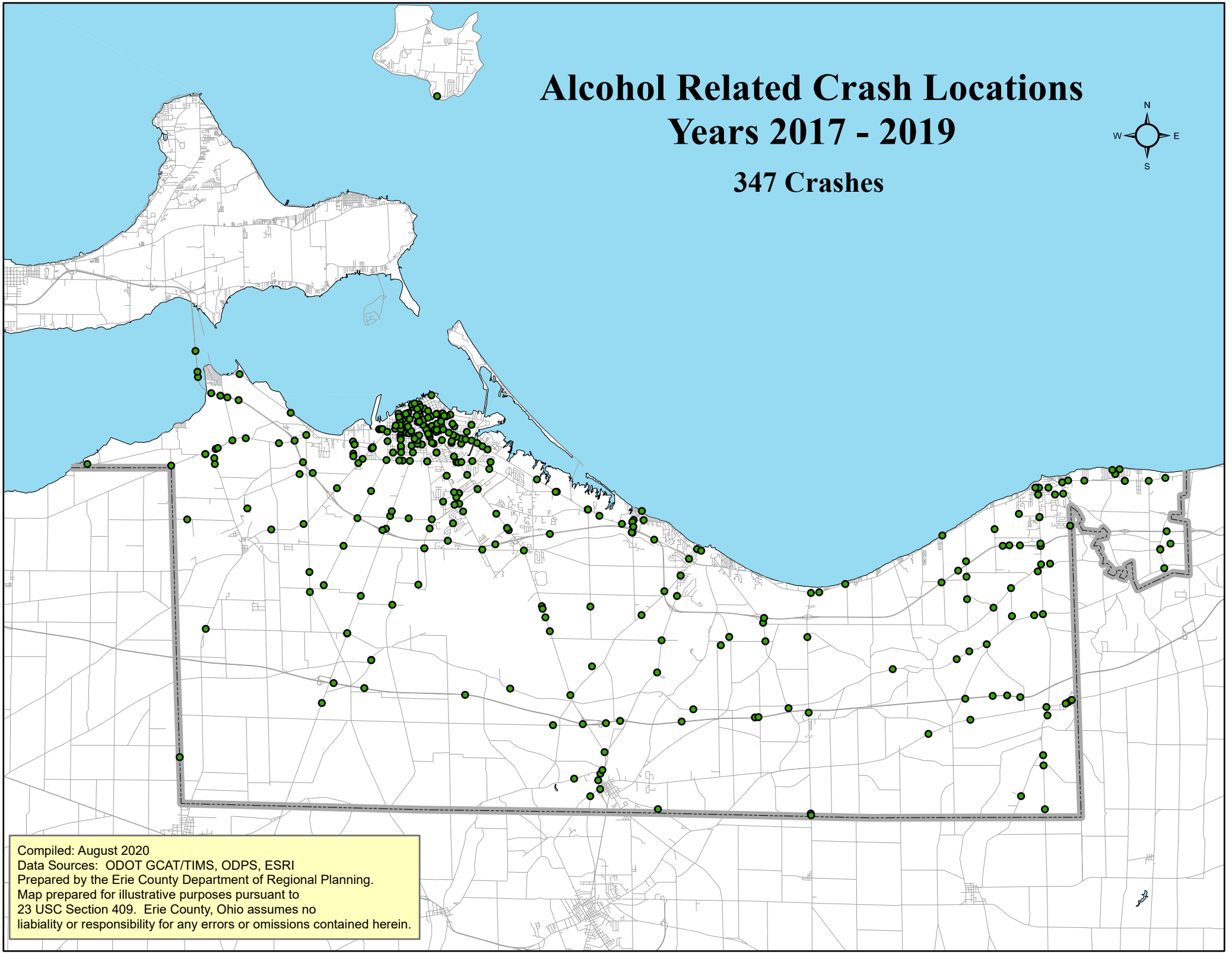
Alcohol Related Crash Locations
Years 2017 - 2019

347 Crashes



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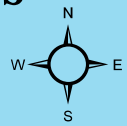
Motorcycle Involved Crash Locations
Years 2017 - 2019

118 Crashes



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Speed Related Crash Locations
Years 2017 - 2019

830 Crashes

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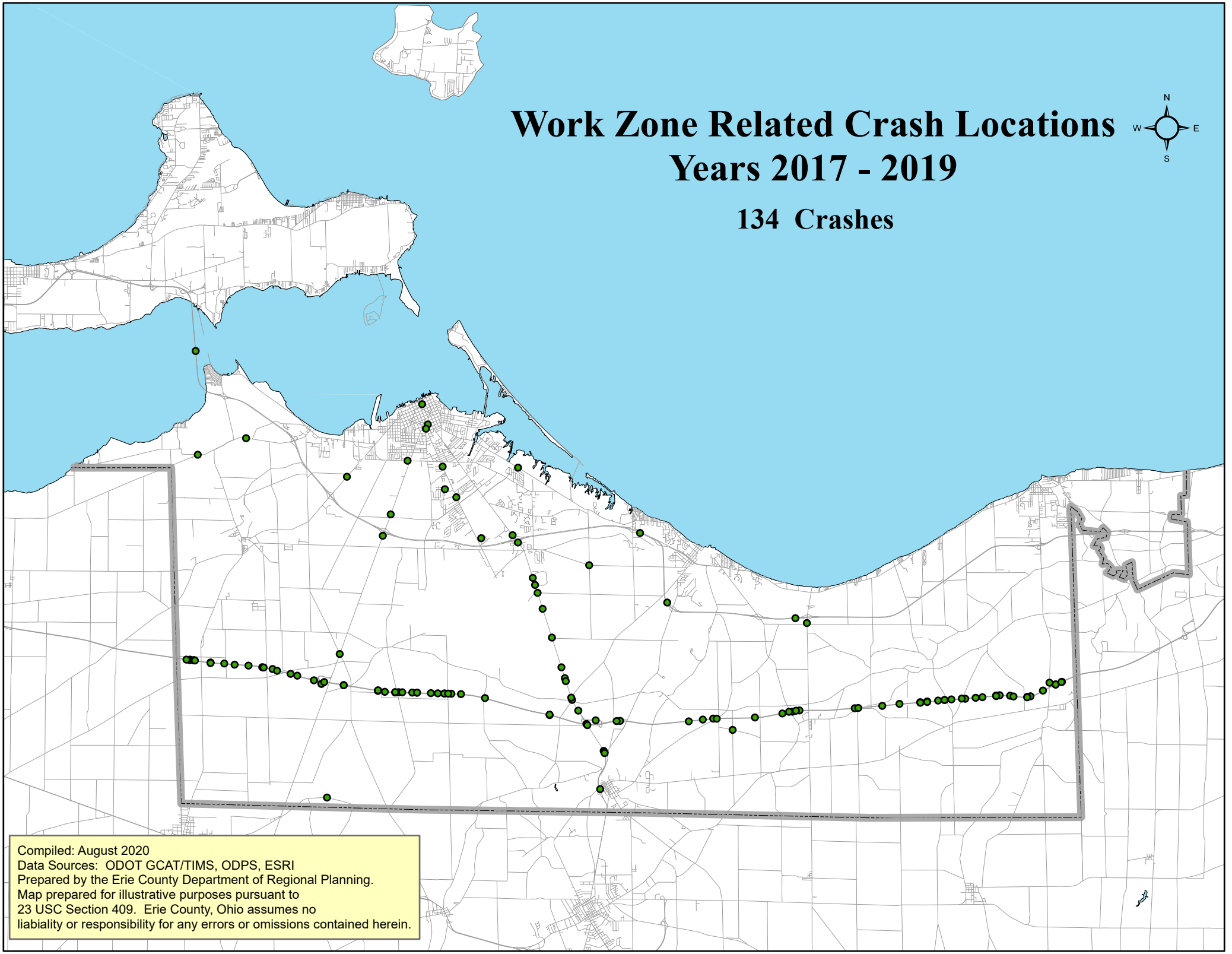
Work Zone Related Crash Locations
Years 2017 - 2019

134 Crashes



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School Zone Crash Locations
Years 2017 - 2019

27 Crashes

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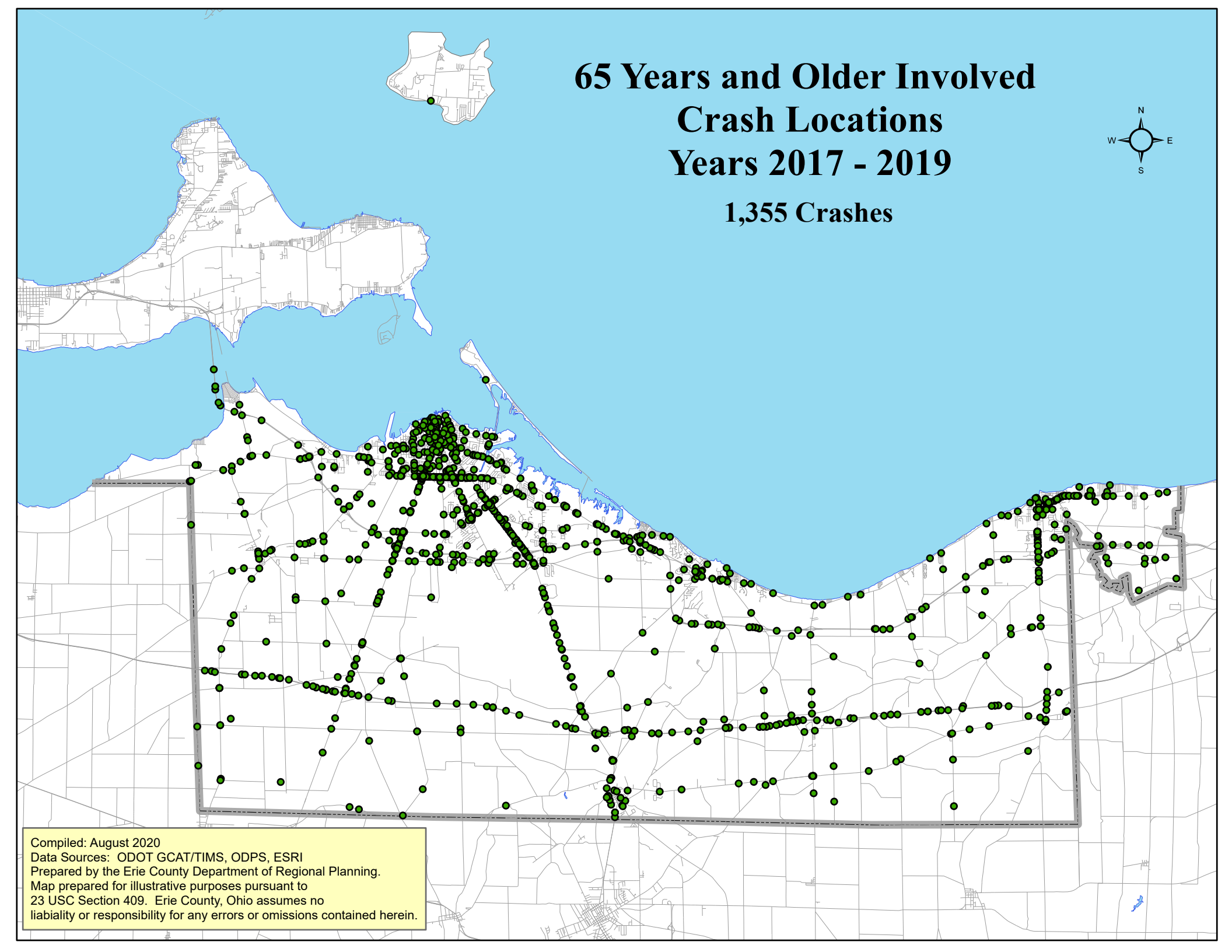
65 Years and Older Involved Crash Locations Years 2017 - 2019

1,355 Crashes



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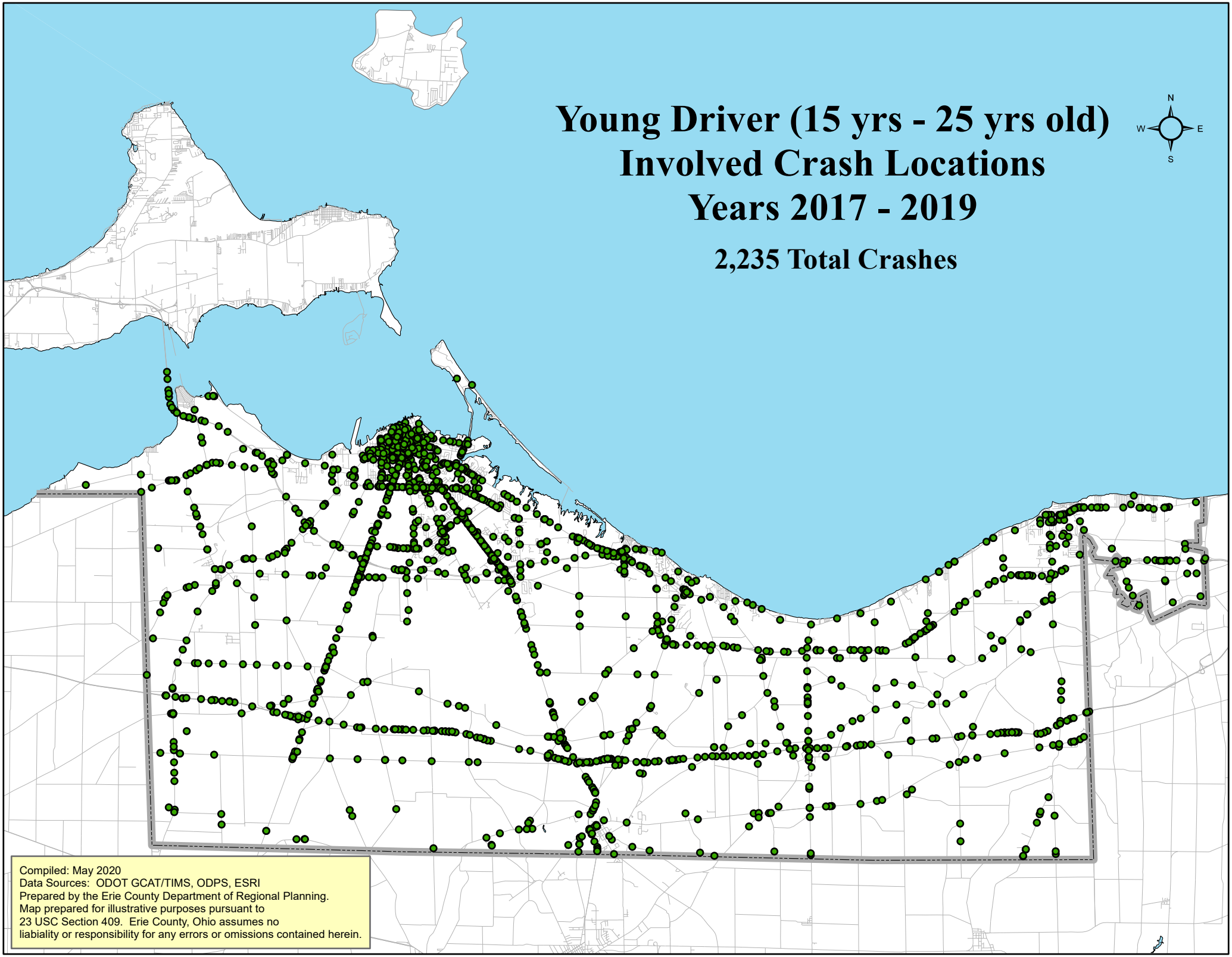
Young Driver (15 yrs - 25 yrs old)
Involved Crash Locations
Years 2017 - 2019
2,235 Total Crashes
N
W
E
S
Compiled: May 2020
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ERPC MPO Crash Data (Years 2017-2019)

	Number
Total	**6978**

CRASH_SEVERITY	Number	%
Fatal Crash	**26**	0.4%
Injury Crash	**1495**	21.4%
Property Damage Crash	**5457**	78.2%
Grand Total	**6978**	**100.0%**

TRAFFIC_CRASH_YEAR	Number	%
2017	**2424**	34.7%
2018	**2253**	32.3%
2019	**2301**	33.0%
Grand Total	**6978**	**100.0%**

DAY_OF_WEEK	Number	%
Friday	**1184**	17.0%
Monday	**1023**	14.7%
Wednesday	**1011**	14.5%
Saturday	**991**	14.2%
Tuesday	**968**	13.9%
Thursday	**942**	13.5%
Sunday	**859**	12.3%
Grand Total	**6978**	**100.0%**

HOUR_OF_DAY	Number	%
0	**135**	1.9%
1	**104**	1.5%
2	**130**	1.9%
3	**81**	1.2%
4	**94**	1.3%
5	**145**	2.1%
6	**225**	3.2%
7	**313**	4.5%
8	**279**	4.0%
9	**275**	3.9%
10	**318**	4.6%
11	**329**	4.7%
12	**388**	5.6%
13	**417**	6.0%
14	**498**	7.1%
15	**543**	7.8%
16	**536**	7.7%
17	**475**	6.8%
18	**392**	5.6%
19	**324**	4.6%
20	**279**	4.0%
21	**276**	4.0%
22	**207**	3.0%
23	**215**	3.1%
Grand Total	**6978**	**100.0%**

TYPE_OF_CRASH	Number	%
Rear End	**1480**	21.2%
Fixed Object	**1329**	19.0%
Animal	**896**	12.8%
Sideswipe - Passing	**841**	12.1%
Angle	**831**	11.9%
Parked Vehicle	**349**	5.0%
Backing	**315**	4.5%
Left Turn	**223**	3.2%
Other Non-Collision	**181**	2.6%
Other Object	**140**	2.0%
Right Turn	**129**	1.8%
Head On	**97**	1.4%
Overturning	**45**	0.6%
Unknown	**42**	0.6%
Pedestrian	**41**	0.6%
Pedalcycles	**22**	0.3%
Sideswipe - Meeting	**15**	0.2%
Train	**2**	0.0%
Grand Total	**6978**	**100.0%**

ERPC MPO Crash Data (Years 2017-2019)

WEATHER_CONDITION	Number	%
Data Not Valid or Not Provided	**6978**	100.0%
Grand Total	**6978**	**100.0%**

ROAD_CONDITION	Number	%
Dry	**5178**	74.2%
Wet	**1183**	17.0%
Snow	**382**	5.5%
Ice	**163**	2.3%
Other / Unknown	**33**	0.5%
Slush	**31**	0.4%
Water (Standing, Moving)	**4**	0.1%
Sand, Mud, Dirt, Oil, Gravel	**4**	0.1%
Grand Total	**6978**	**100.0%**

LIGHT_CONDITION	Number	%
Daylight	**4389**	62.9%
Dark - Roadway Not Lighted	**1206**	17.3%
Dark - Lighted Roadway	**881**	12.6%
Dawn/Dusk	**326**	4.7%
Other / Unknown	**90**	1.3%
Dark - Unknown Roadway Lighting	**86**	1.2%
Grand Total	**6978**	**100.0%**

NUMBER_OF_VEHICLES	Number	%
1	**2621**	37.6%
2	**4050**	58.0%
3	**272**	3.9%
4	**31**	0.4%
5	**1**	0.0%
6	**1**	0.0%
8	**1**	0.0%
9	**1**	0.0%
Grand Total	**6978**	**100.0%**

LOCATION	Number	%
Not An Intersection	**4906**	70.3%
Four-Way Intersection	**1135**	16.3%
T-Intersection	**579**	8.3%
Driveway/Alley Access	**182**	2.6%
Off Ramp	**67**	1.0%
5 Or More Point Intersection	**30**	0.4%
On Ramp	**29**	0.4%
Y-Intersection	**26**	0.4%
Crossover	**8**	0.1%
Railroad Grade Crossing	**8**	0.1%
Traffic Circle/Roundabout	**7**	0.1%
Shared-Use Paths Or Trails	**1**	0.0%
Grand Total	**6978**	**100.0%**

CRASH_MONTH_NBR	Number	%
1	**581**	8.3%
2	**438**	6.3%
3	**511**	7.3%
4	**421**	6.0%
5	**689**	9.9%
6	**631**	9.0%
7	**656**	9.4%
8	**590**	8.5%
9	**505**	7.2%
10	**651**	9.3%
11	**646**	9.3%
12	**659**	9.4%
Grand Total	**6978**	**100.0%**

ROAD_CONTOUR	Number	%
Straight Level	**5973**	85.6%
Straight Grade	**511**	7.3%
Curve Level	**362**	5.2%
Curve Grade	**131**	1.9%
Other / Unknown	**1**	0.0%
Grand Total	**6978**	**100.0%**

SPECIAL_AREA	Number	%
(blank)	**6978**	100.0%
Grand Total	**6978**	**100.0%**

ANIMAL_TYPE	Number	%
(blank)	**6978**	100.0%
Grand Total	**6978**	**100.0%**

ERPC MPO Crash Data (Years 2017-2019)

ACTION1	Number	%
Straight Ahead	**4628**	66.3%
Making Left Turn	**614**	8.8%
Backing	**315**	4.5%
Changing Lanes	**272**	3.9%
Making Right Turn	**228**	3.3%
Slowing or Stopped In Traffic	**206**	3.0%
Negotiating a Curve	**185**	2.7%
Entering Traffic Lane	**139**	2.0%
Data Not Valid or Not Provided	**91**	1.3%
Overtaking/Passing	**90**	1.3%
Other / Unknown	**88**	1.3%
Leaving Traffic Lane	**47**	0.7%
Parked	**41**	0.6%
Entering or Crossing Specified Location	**10**	0.1%
Walking, Running, Jogging, Playing	**9**	0.1%
Making U-Turn	**9**	0.1%
Driverless	**5**	0.1%
Other Non-Motorist	**1**	0.0%
Grand Total	**6978**	**100.0%**

CONTRIBUTING_FACTOR1	Number	%
None	**1466**	21.0%
Following too Close / ACDA	**1411**	20.2%
Other Improper Action	**1215**	17.4%
Failure to Yield	**869**	12.5%
Improper Lane Change	**455**	6.5%
Unsafe Speed	**376**	5.4%
Improper Backing	**270**	3.9%
Drove off Road	**212**	3.0%
Ran Red Light	**119**	1.7%
Operating Defective Equipment	**106**	1.5%
Improper Turn	**102**	1.5%
Left of Center	**88**	1.3%
Load shifting/Falling/Spilling	**58**	0.8%
Swerving to Avoid	**57**	0.8%
Ran Stop Sign	**49**	0.7%
Improper Start From a Parked Position	**41**	0.6%
Improper Passing	**30**	0.4%
Improper Crossing	**15**	0.2%
Wrong Way	**12**	0.2%
Not Discernible	**12**	0.2%
Vision Obstruction	**9**	0.1%
Stopped or Parked Illegally	**4**	0.1%
Opening Door into Roadway	**1**	0.0%
Lying in Roadway	**1**	0.0%
Grand Total	**6978**	**100.0%**

	Number	%
Total	**6978**	**100.0%**

TRAFFIC_CONTROL1	Number	%
No Control	**5261**	75.4%
Signal	**1066**	15.3%
Stop Sign	**601**	8.6%
Flasher	**28**	0.4%
Yield Sign	**18**	0.3%
Roundabout	**4**	0.1%
Grand Total	**6978**	**100.0%**

DRIVER_ALCOHOL1	Number	%
No	**6631**	95.0%
Yes	**347**	5.0%
Grand Total	**6978**	**100.0%**

DRIVER_DRUGS1	Number	%
No	**6887**	98.7%
Yes	**91**	1.3%
Grand Total	**6978**	**100.0%**

ERPC MPO Crash Data (Years 2017-2019)

DIRECTION_FROM1	Number	%
East	**1971**	28.2%
West	**1871**	26.8%
South	**1446**	20.7%
North	**1354**	19.4%
Unknown	**96**	1.4%
Northeast	**76**	1.1%
Northwest	**59**	0.8%
Southwest	**58**	0.8%
Southeast	**47**	0.7%
Grand Total	**6978**	**100.0%**

DIRECTION_TO1	Number	%
Unknown	**1722**	24.7%
West	**1555**	22.3%
East	**1491**	21.4%
North	**1004**	14.4%
South	**978**	14.0%
Southwest	**61**	0.9%
Southeast	**60**	0.9%
Northeast	**54**	0.8%
Northwest	**53**	0.8%
Grand Total	**6978**	**100.0%**

POSTED_SPEED1	Number	%
35	**2**	100.0%
Grand Total	**2**	**100.0%**

ESTIMATED_SPEED1	Number	%
35	**1**	50.0%
20	**1**	50.0%
Grand Total	**2**	**100.0%**

VEHICLE_TYPE1	Number	%
Passenger Car	**3295**	47.2%
Sport Utility Vehicle	**1524**	21.8%
Pick up	**851**	12.2%
Unknown or Hit/Skip	**323**	4.6%
Semi-Tractor	**276**	4.0%
Passenger Van (minivan)	**267**	3.8%
Single Unit Truck	**137**	2.0%
Cargo Van	**118**	1.7%
Motorcycle 2 Wheeled	**74**	1.1%
Other Vehicle	**23**	0.3%
Bus (16+ Passengers)	**22**	0.3%
Heavy Equipment	**20**	0.3%
Van (9-15 Seats)	**14**	0.2%
Pedestrian/Skater	**13**	0.2%
Bicycle	**11**	0.2%
Motorhome	**5**	0.1%
Farm Equipment	**2**	0.0%
Moped or Motorized Bicycle	**1**	0.0%
Motorcycle 3 Wheeled	**1**	0.0%
Snowmobile	**1**	0.0%
Grand Total	**6978**	**100.0%**

VEHICLE_TYPE2	Number	%
	2621	37.6%
Passenger Car	**1999**	28.6%
Sport Utility Vehicle	**1132**	16.2%
Pick up	**547**	7.8%
Passenger Van (minivan)	**221**	3.2%
Semi-Tractor	**135**	1.9%
Cargo Van	**80**	1.1%
Single Unit Truck	**66**	0.9%
Motorcycle 2 Wheeled	**49**	0.7%
Unknown or Hit/Skip	**39**	0.6%
Pedestrian/Skater	**28**	0.4%
Bus (16+ Passengers)	**21**	0.3%
Other Vehicle	**11**	0.2%
Bicycle	**9**	0.1%
Heavy Equipment	**9**	0.1%
Van (9-15 Seats)	**5**	0.1%
Motorhome	**3**	0.0%
Train	**1**	0.0%
Farm Equipment	**1**	0.0%
Moped or Motorized Bicycle	**1**	0.0%
Grand Total	**6978**	**100.0%**

ERPC MPO Crash Data (Years 2017-2019)

ACTION2	Number	%
	2637	37.8%
Straight Ahead	**1967**	28.2%
Slowing or Stopped In Traffic	**1354**	19.4%
Parked	**595**	8.5%
Making Left Turn	**182**	2.6%
Making Right Turn	**80**	1.1%
Backing	**37**	0.5%
Walking, Running, Jogging, Playing	**23**	0.3%
Negotiating a Curve	**23**	0.3%
Overtaking/Passing	**19**	0.3%
Changing Lanes	**16**	0.2%
Entering Traffic Lane	**15**	0.2%
Entering or Crossing Specified Location	**11**	0.2%
Other / Unknown	**9**	0.1%
Leaving Traffic Lane	**6**	0.1%
Driverless	**4**	0.1%
Grand Total	**6978**	**100.0%**

CONTRIBUTING_FACTOR2	Number	%
None	**4043**	57.9%
	2621	37.6%
Other Improper Action	**115**	1.6%
Failure to Yield	**45**	0.6%
Following too Close / ACDA	**41**	0.6%
Improper Backing	**23**	0.3%
Swerving to Avoid	**14**	0.2%
Not Discernible	**13**	0.2%
Improper Lane Change	**11**	0.2%
Ran Red Light	**11**	0.2%
Left of Center	**7**	0.1%
Stopped or Parked Illegally	**6**	0.1%
Improper Turn	**5**	0.1%
Ran Stop Sign	**5**	0.1%
Unsafe Speed	**4**	0.1%
Improper Crossing	**4**	0.1%
Load shifting/Falling/Spilling	**3**	0.0%
Vision Obstruction	**2**	0.0%
Improper Passing	**2**	0.0%
Improper Start From a Parked Position	**1**	0.0%
Operating Defective Equipment	**1**	0.0%
Wrong Way	**1**	0.0%
Grand Total	**6978**	**100.0%**

DIRECTION_FROM2	Number	%
	2622	37.6%
West	**1115**	16.0%
East	**1088**	15.6%
South	**1046**	15.0%
North	**940**	13.5%
Northeast	**44**	0.6%
Northwest	**36**	0.5%
Southeast	**33**	0.5%
Unknown	**28**	0.4%
Southwest	**26**	0.4%
Grand Total	**6978**	**100.0%**

DIRECTION_TO2	Number	%
	3766	54.0%
East	**845**	12.1%
West	**845**	12.1%
North	**737**	10.6%
South	**639**	9.2%
Northwest	**35**	0.5%
Southeast	**33**	0.5%
Southwest	**28**	0.4%
Unknown	**26**	0.4%
Northeast	**24**	0.3%
Grand Total	**6978**	**100.0%**

DRIVER_ALCOHOL2	Number	%
(blank)	**6978**	100.0%
Grand Total	**6978**	**100.0%**

DRIVER_DRUGS2	Number	%
(blank)	**6978**	100.0%
Grand Total	**6978**	**100.0%**

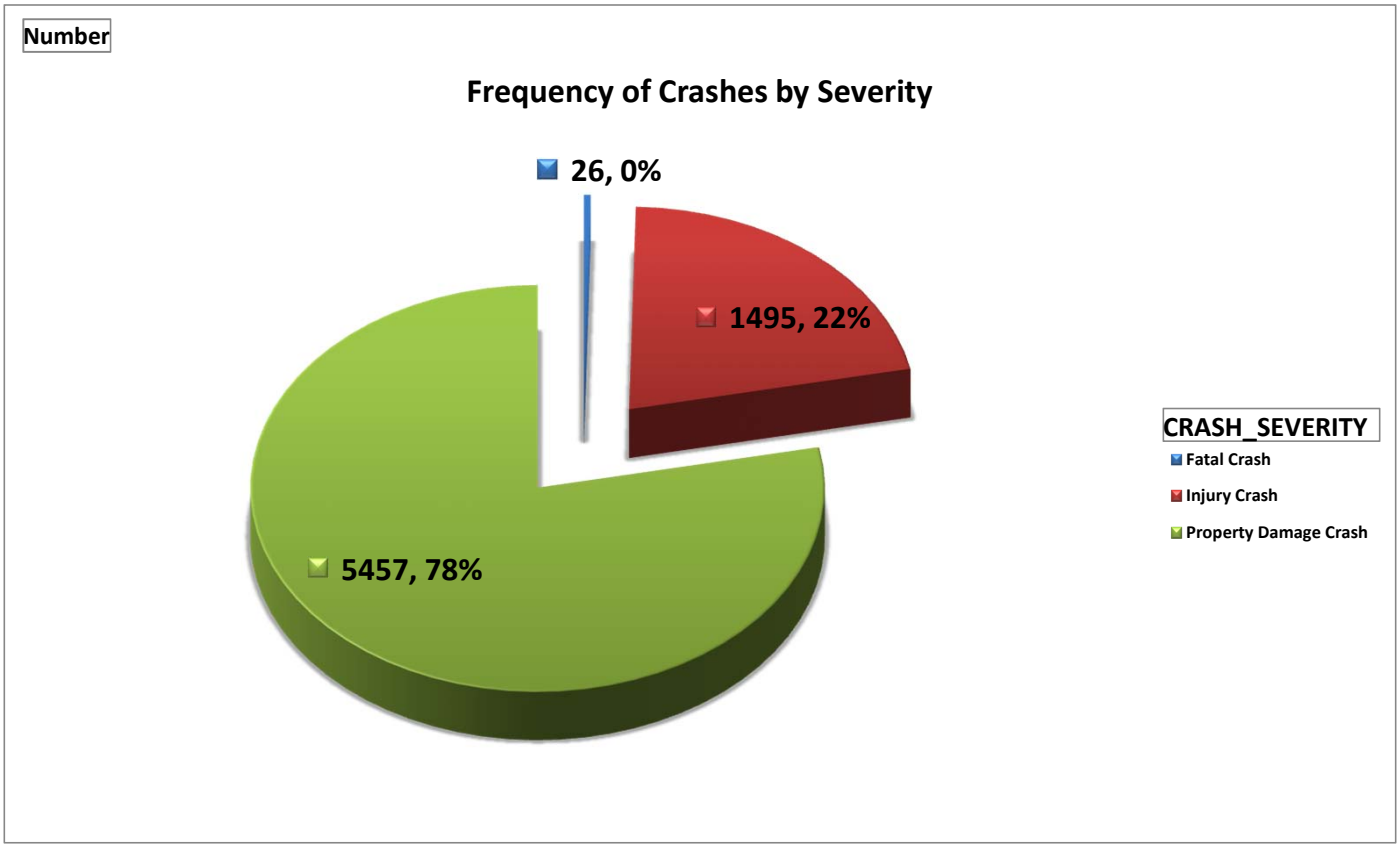
ERPC MPO Crash Data (Years 2017-2019)

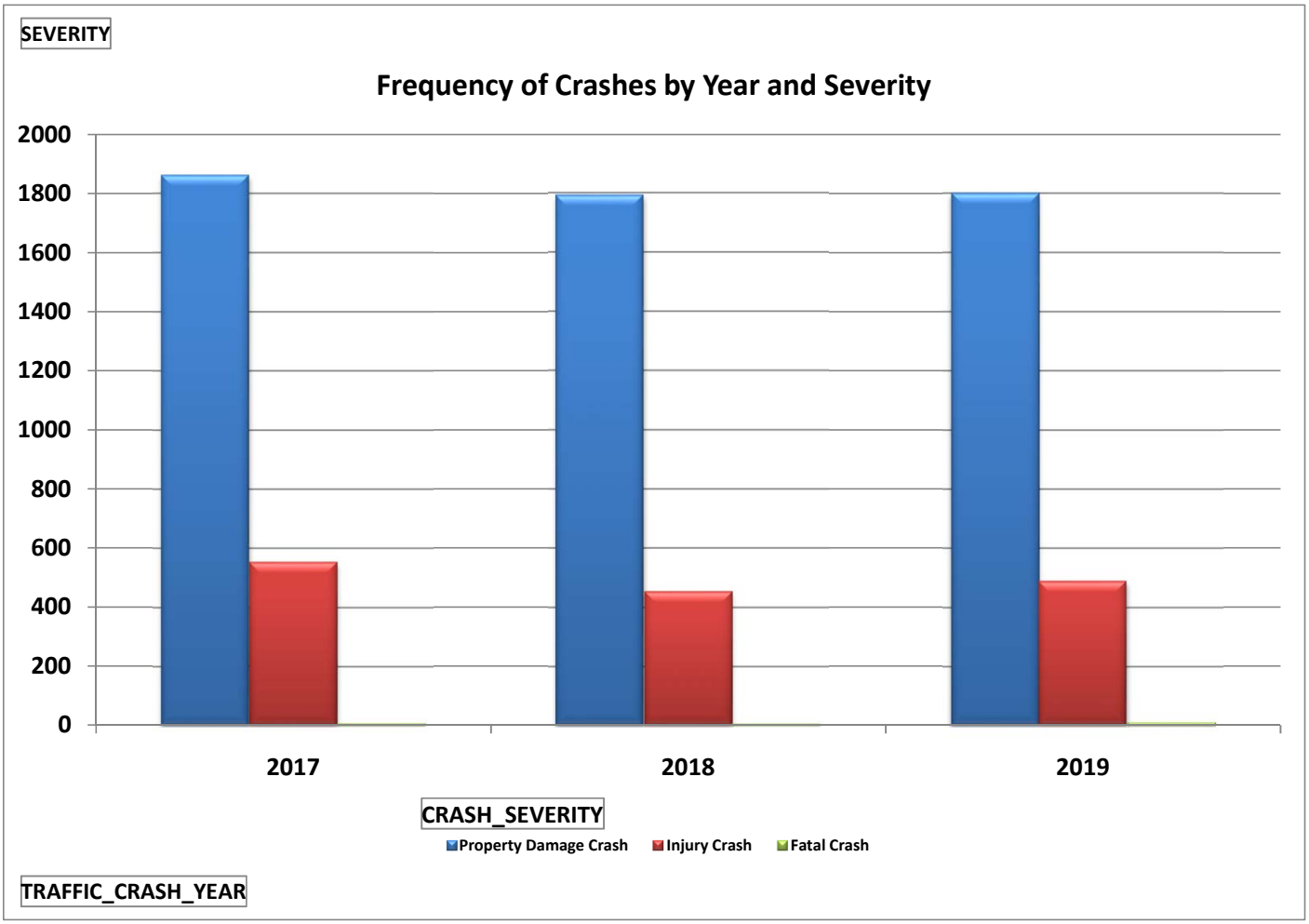
SEVERITY	CRASH_SEVERITY		
TRAFFIC_CRASH_YEAR	Property Damage Crash	Injury Crash	Fatal Crash
2017	1863	553	8
2018	1793	453	7
2019	1801	489	11
Grand Total	**5457**	**1495**	**26**

TRAFFIC_CRASH_YEAR	Fatalities	Incapacitating Injuries
2017	8	57
2018	7	52
2019	13	45
Grand Total	**28**	**154**

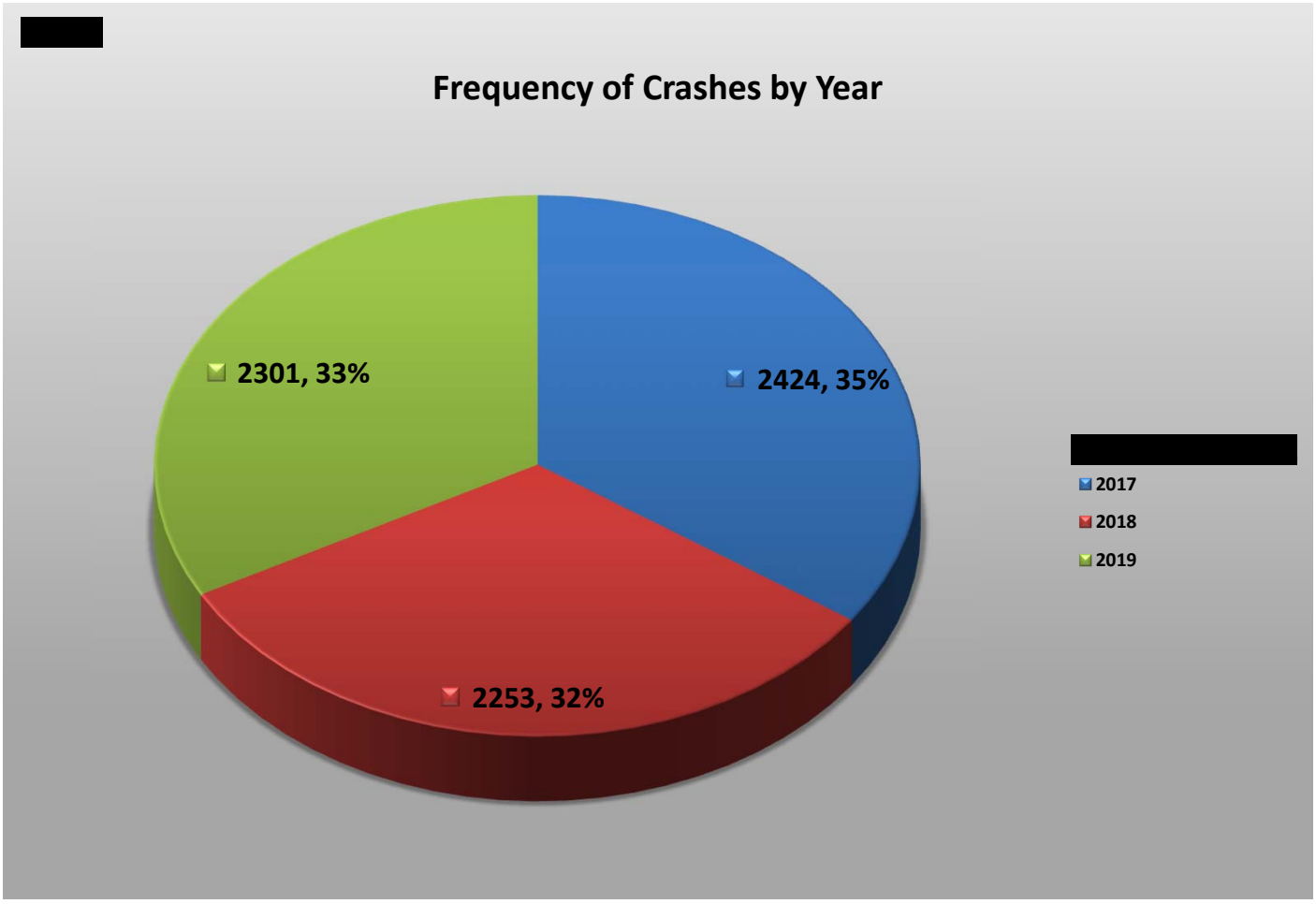
TRAFFIC_CRASH_YEAR	INJ_TYPE2_SERIOUS_VISIBLE	INJ_TYPE3_MINOR_VISIBLE	INJ_TYPE4_NO_VISIBLE
2017	57	313	448
2018	52	295	324
2019	45	397	258
Grand Total	**154**	**1005**	**1030**

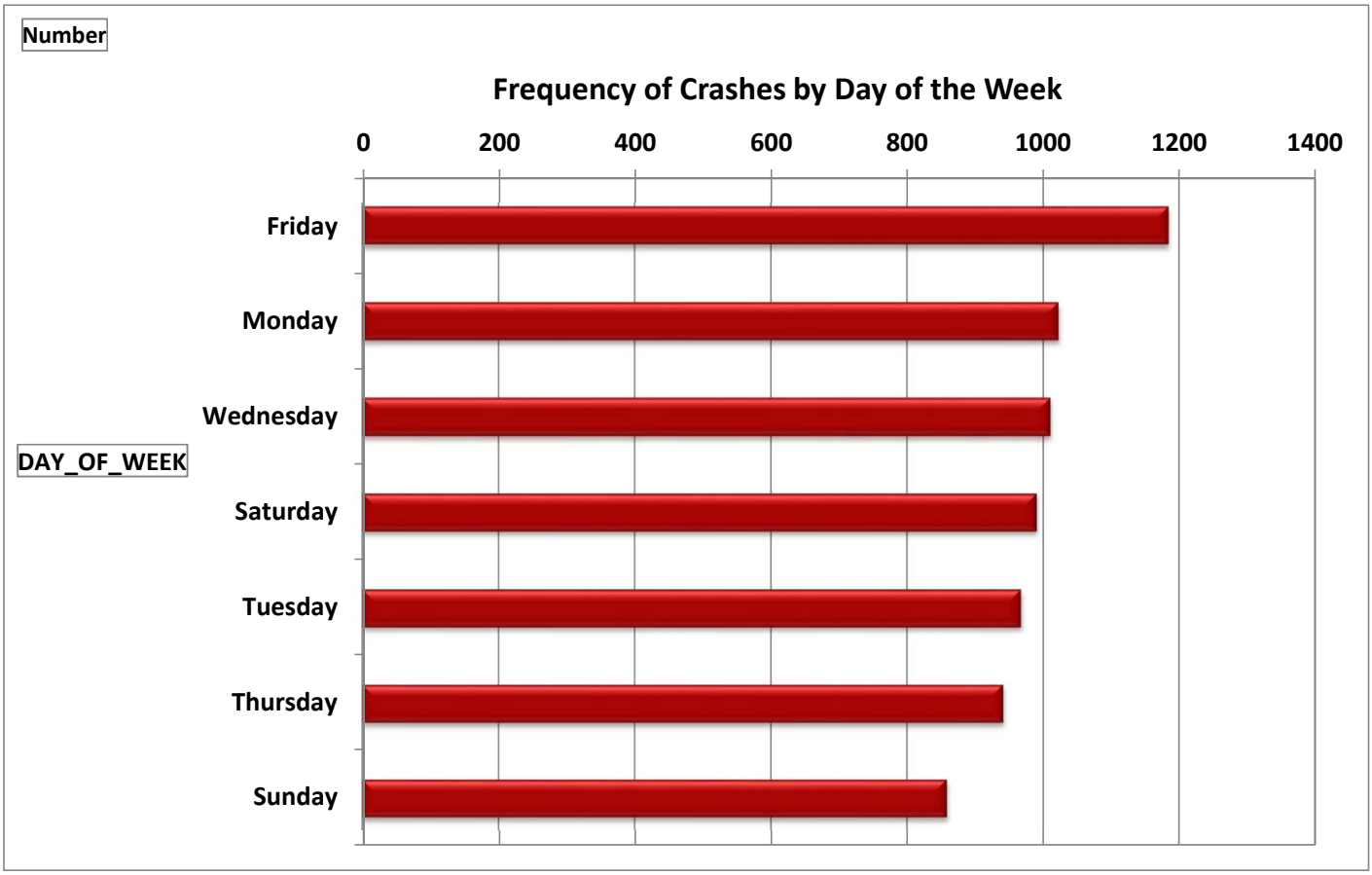
ERPC MPO Crash Data (Years 2017-2019)



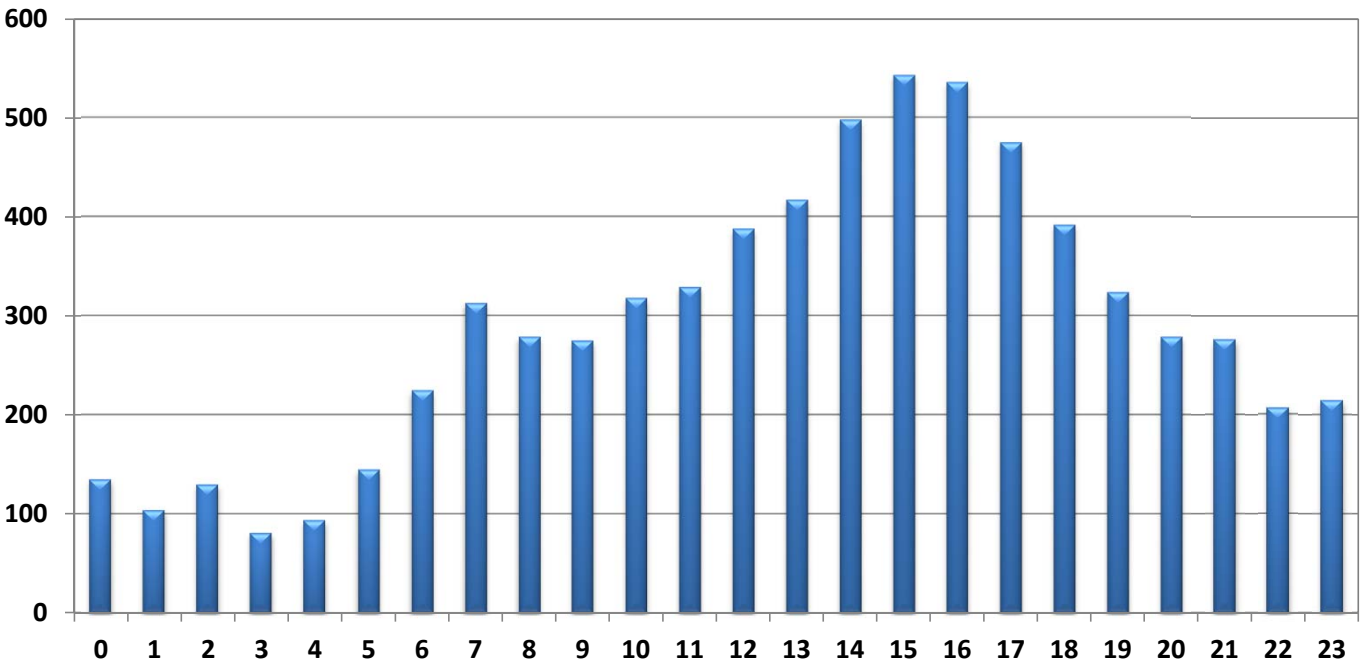


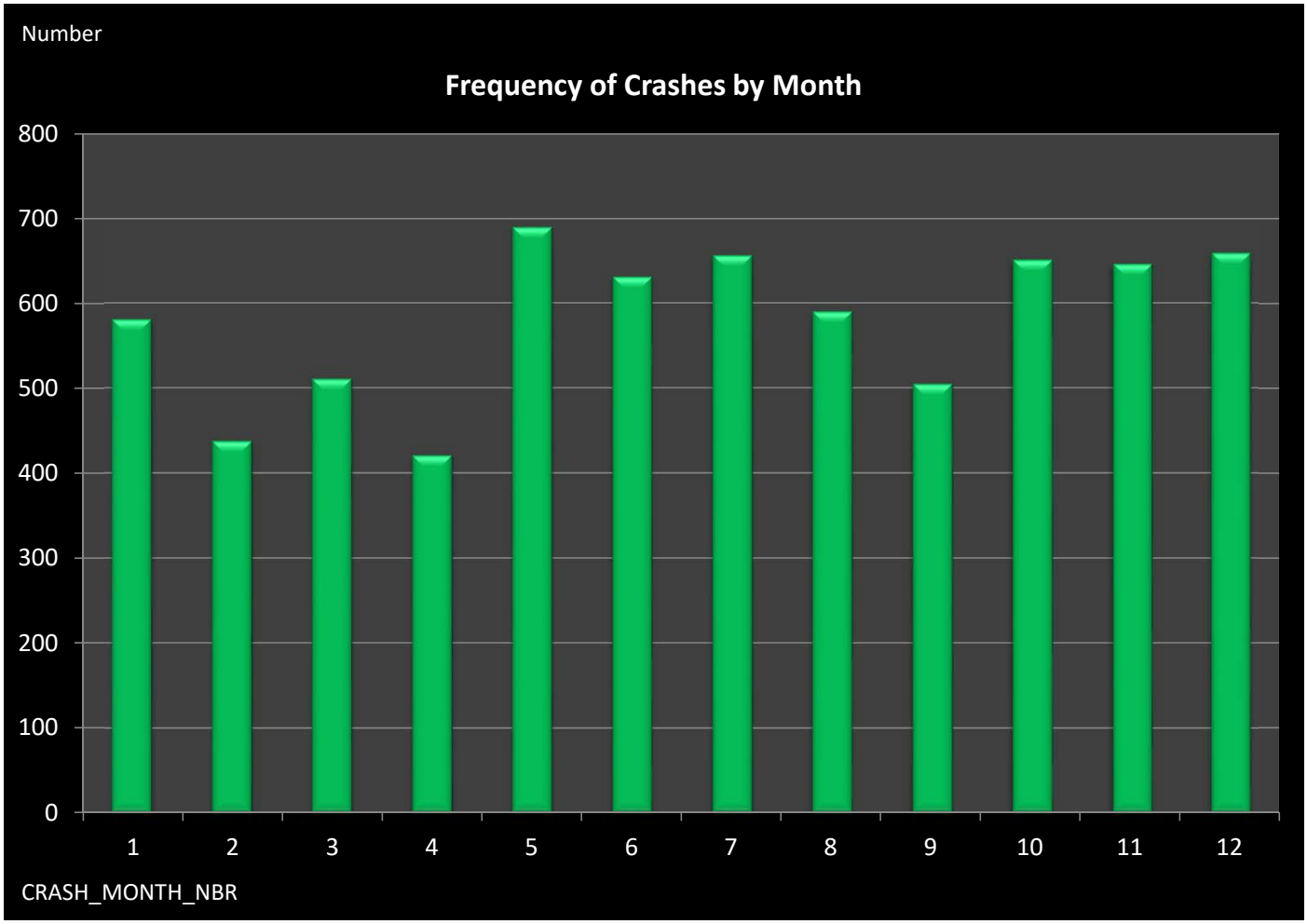
ERPC MPO Crash Data (Years 2017-2019)



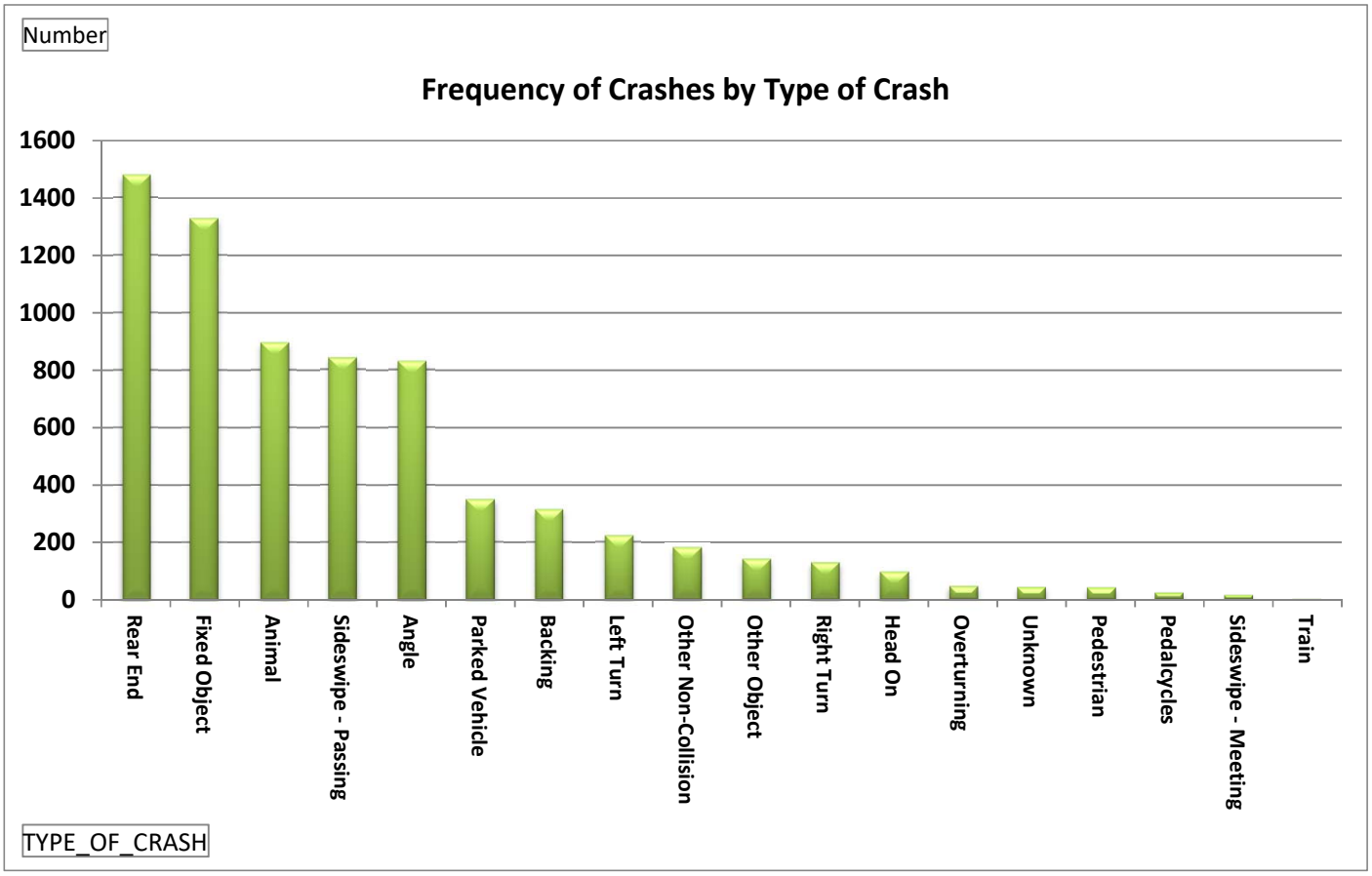


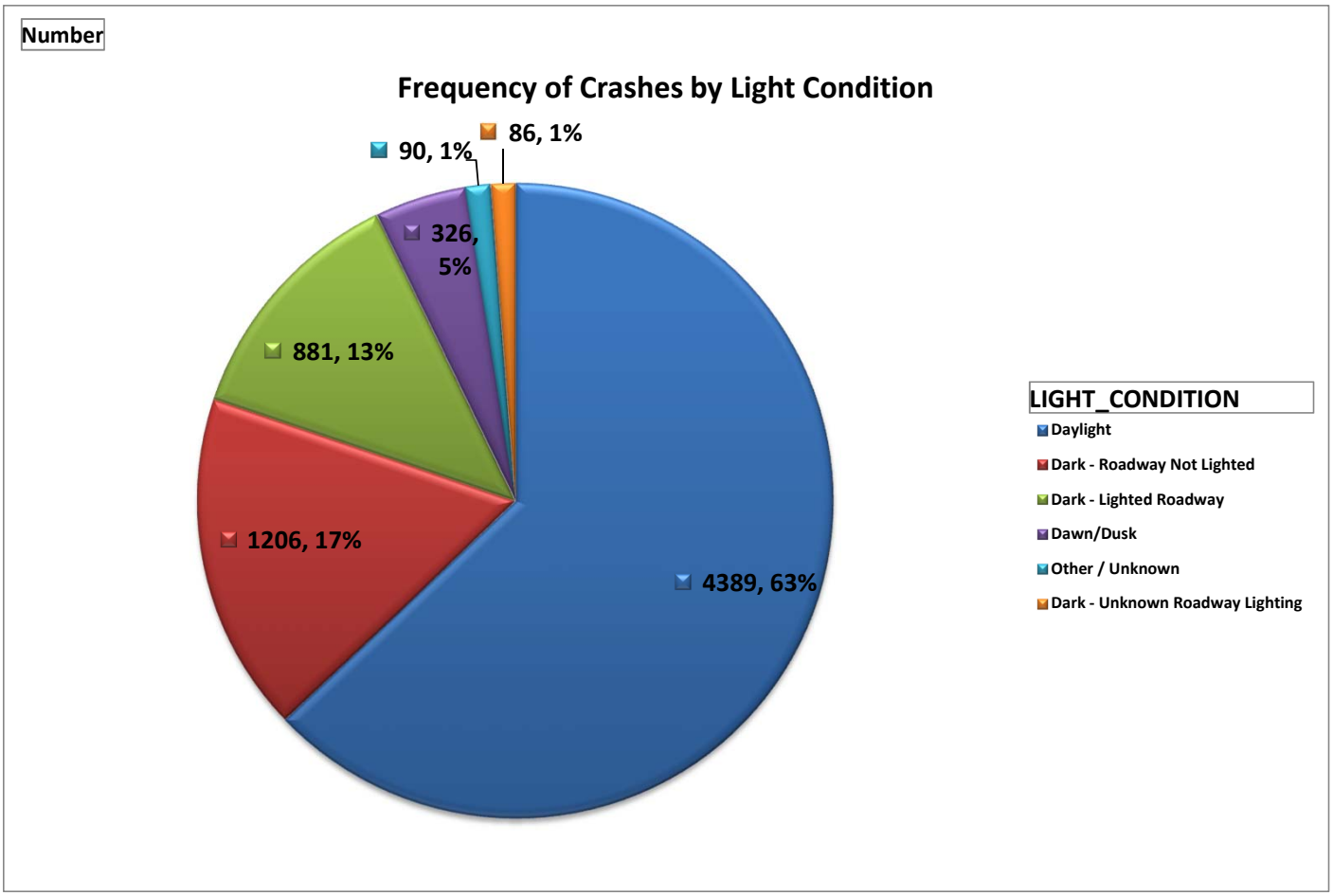
ERPC MPO Crash Data (Years 2017-2019)



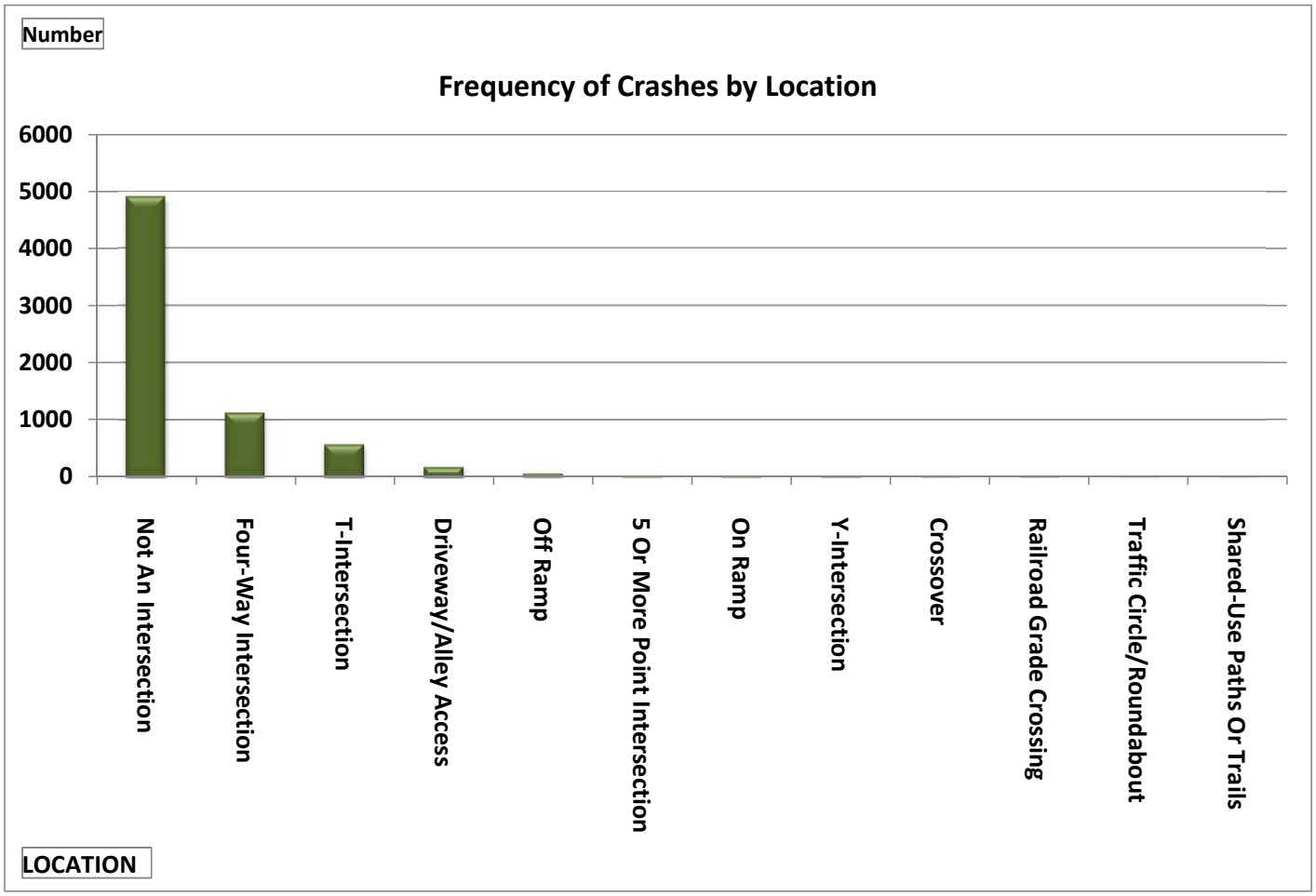


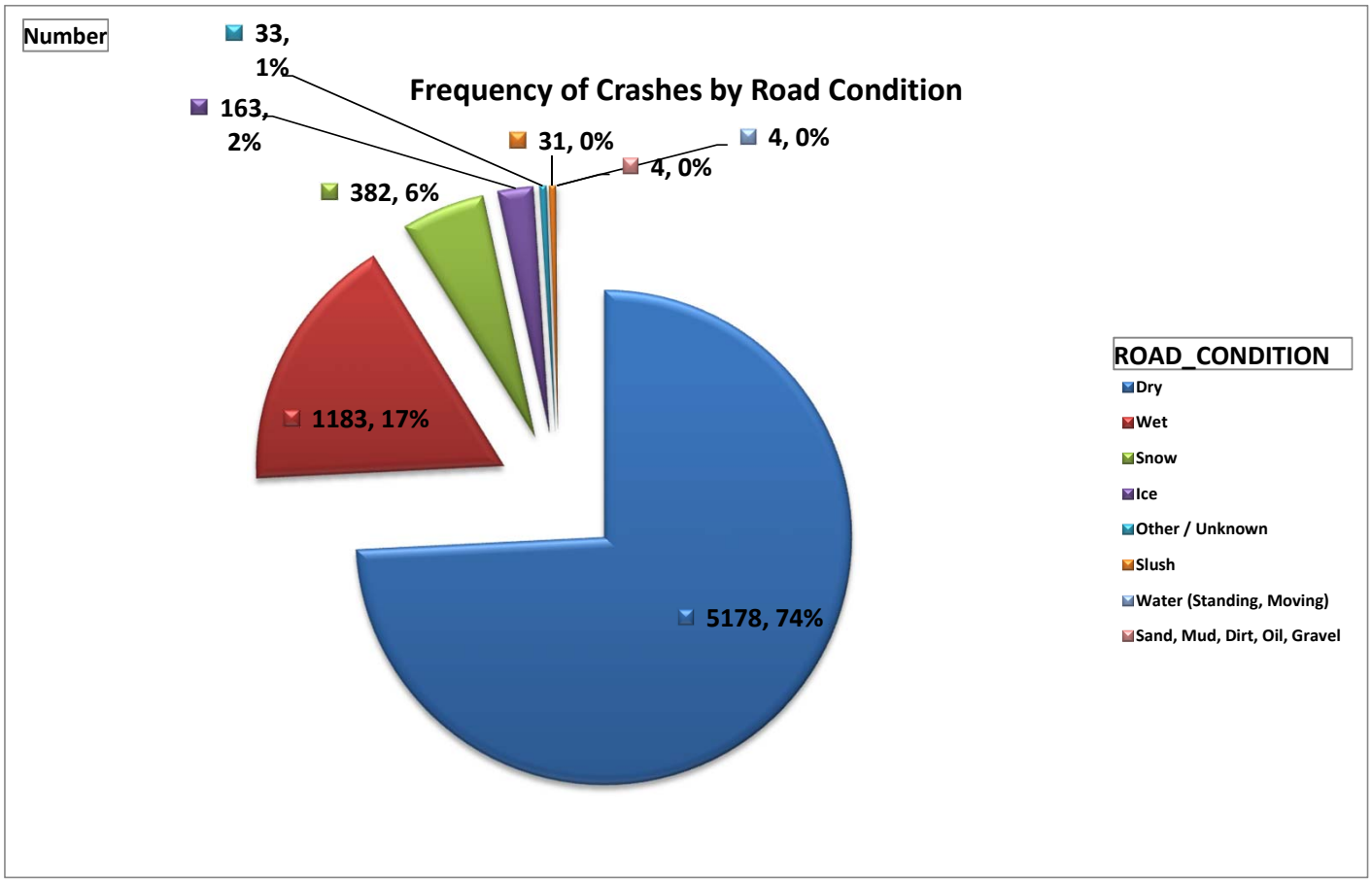
ERPC MPO Crash Data (Years 2017-2019)





ERPC MPO Crash Data (Years 2017-2019)





ERPC MPO Crash Data (Years 2017-2019)

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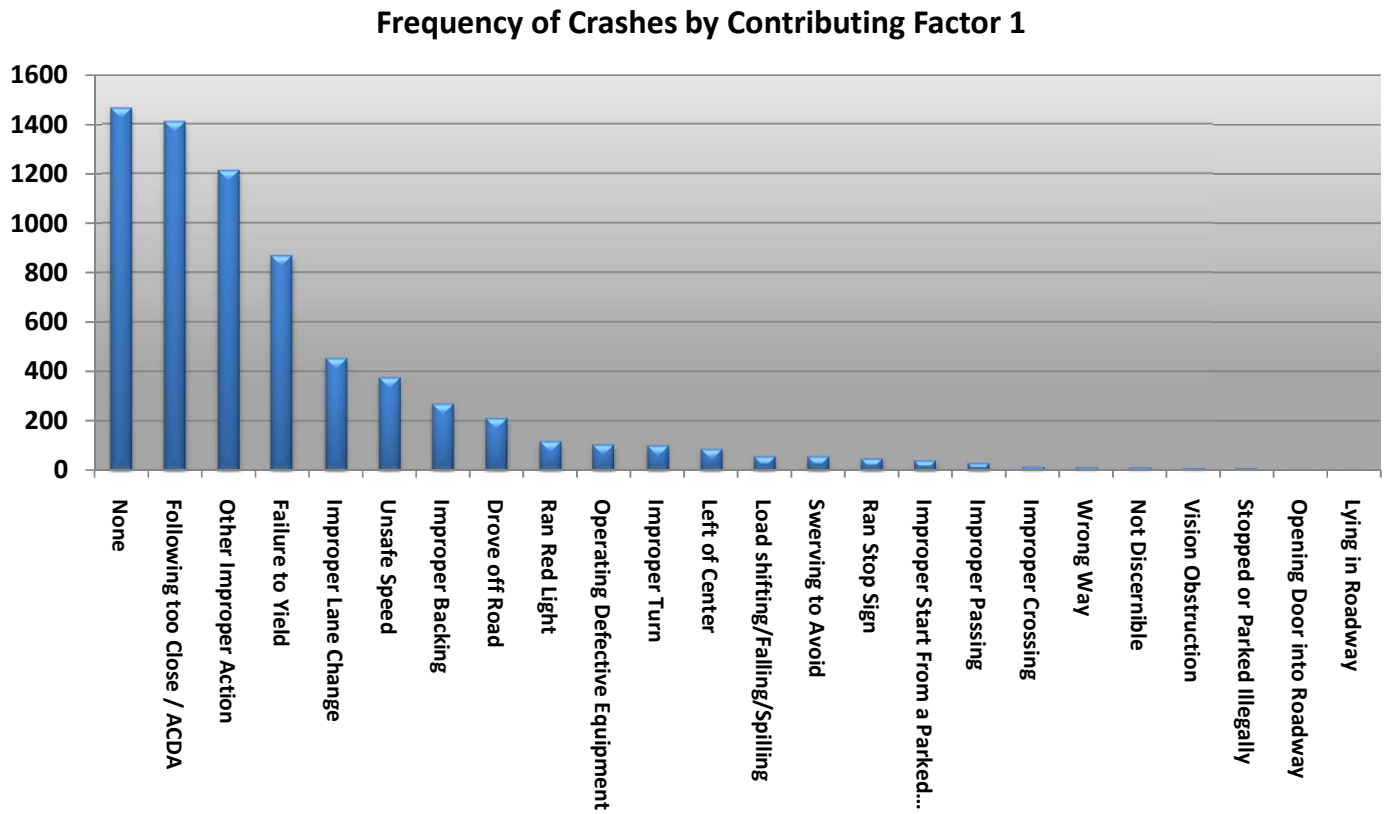

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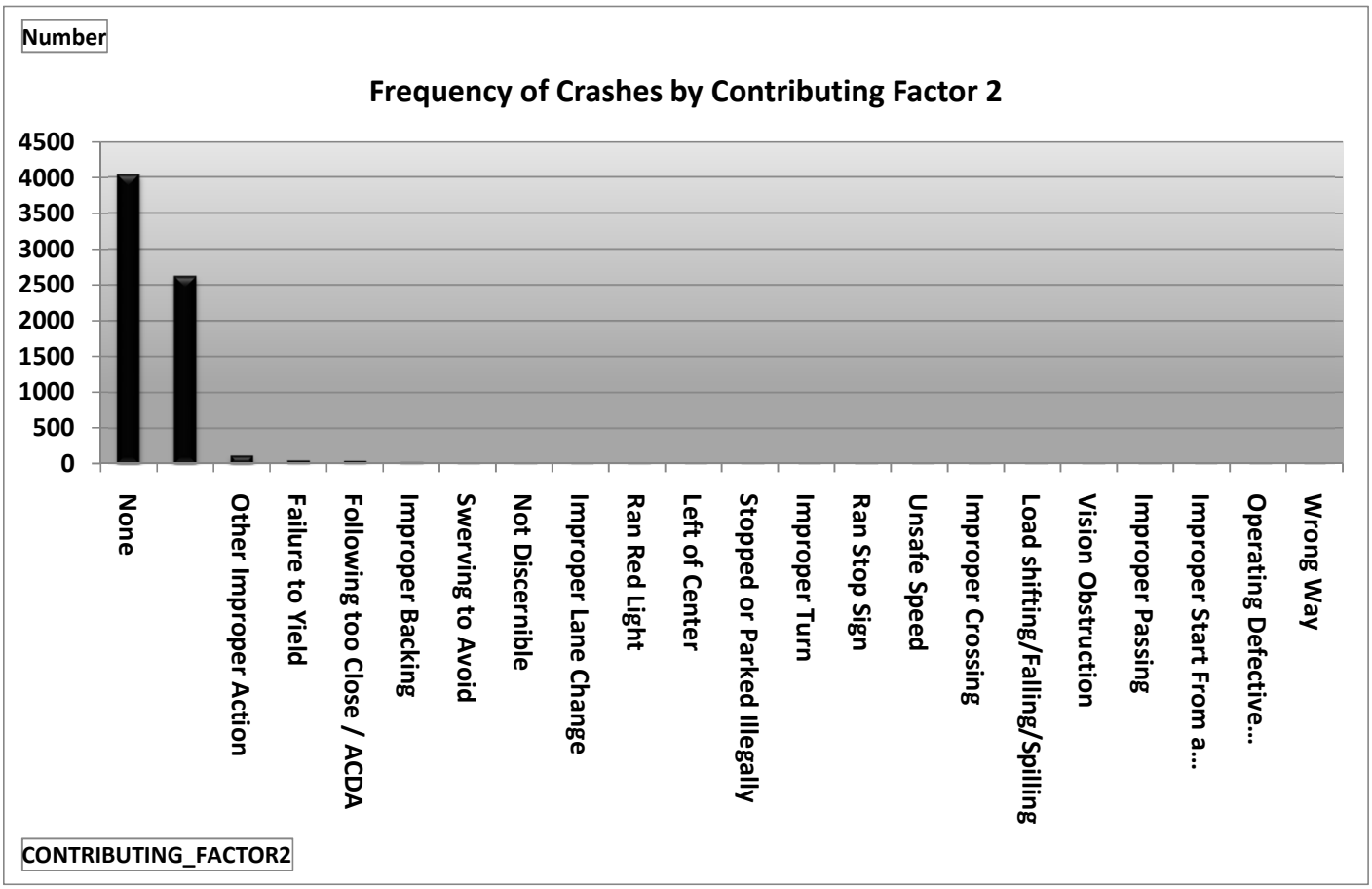
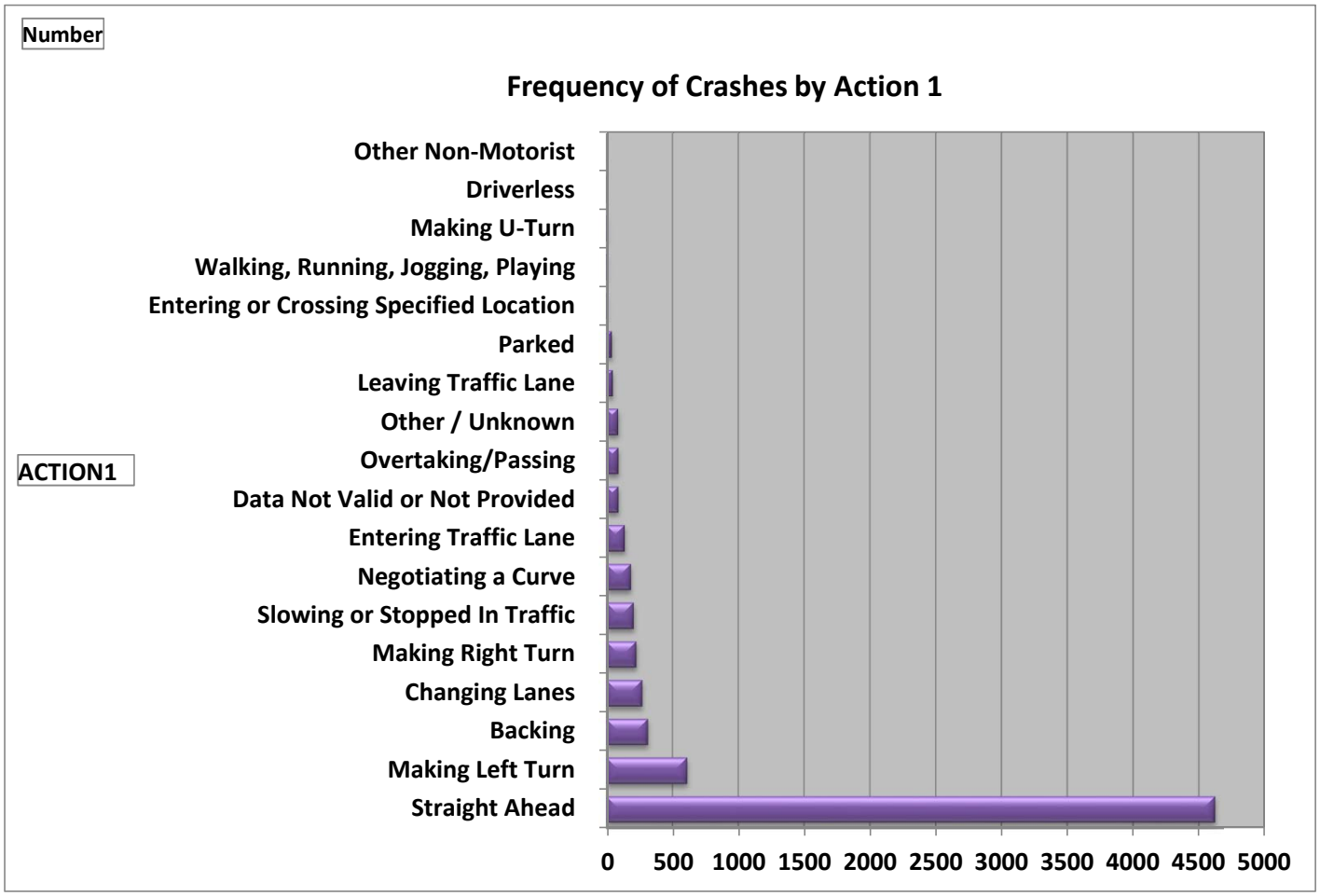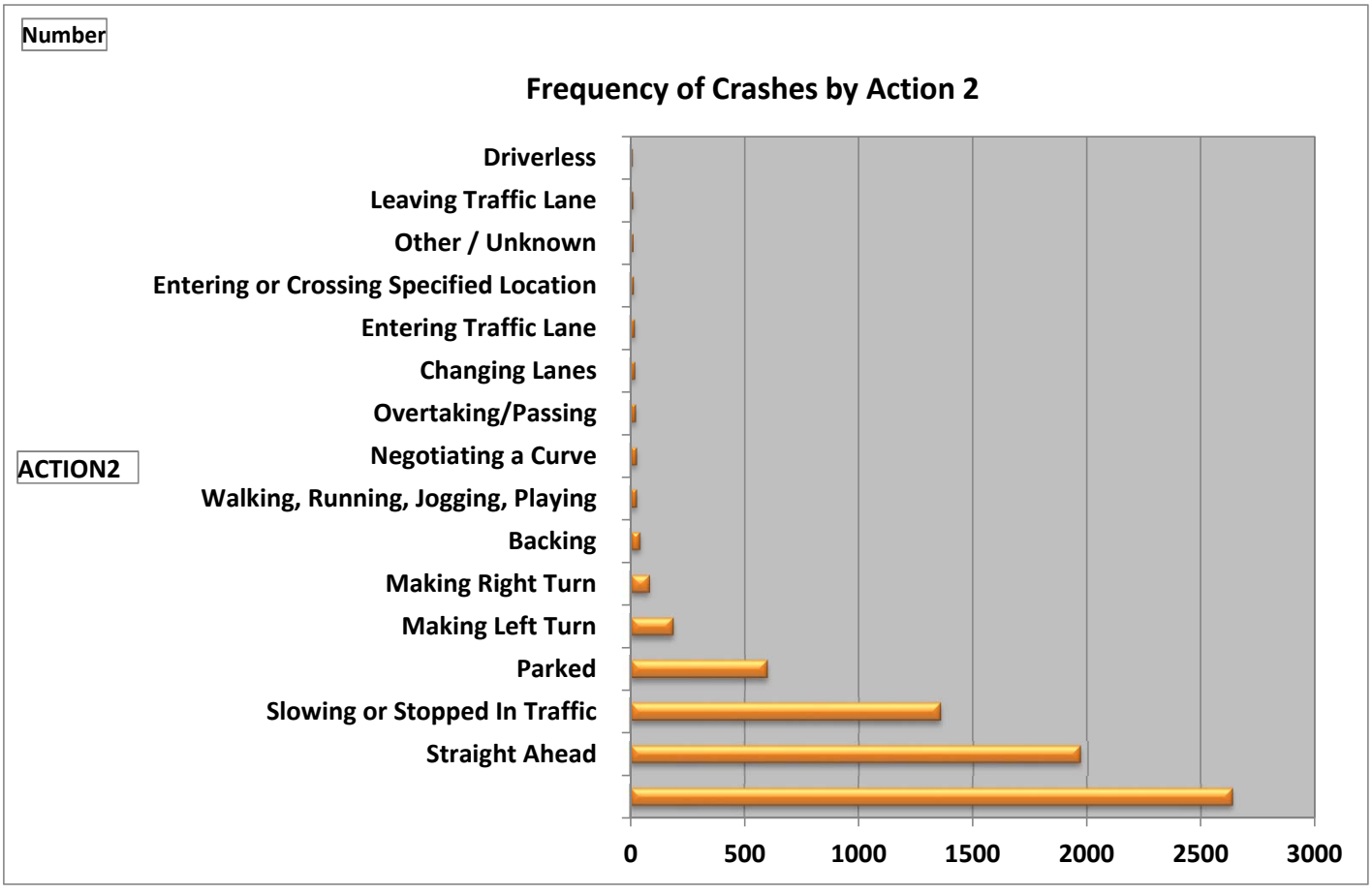
ERPC MPO Crash Data (Years 2017-2019)