

# CRASH SUMMARY REPORT

## SFY 2019



**Prepared By:**

**Erie County Regional Planning  
Metropolitan Planning Organization  
2900 Columbus Avenue  
Sandusky, Ohio 44870**

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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 Erie County during the 2016, 2017, and 2018 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. ERPC intends to update the crash rate table throughout the year 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 for the years of 2015 through 2017.

## **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 2016-2018.

### 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 2016-2018.

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 2016-2018. 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 2016 – 2018 crash statistics for the ERPC MPO region:

7,123 Total Crashes (27 Fatal, 1,549 Injury, 5,547 Property Damage Only)

- 2,445 occurred in 2016
- 2,425 occurred in 2017
- 2,253 occurred in 2018

Number of fatalities by year:

2016 – 12 fatalities

2017 – 8 fatalities

2018 – 7 fatalities

Number of incapacitating injuries by year:

2016 – 104 injuries

2017 – 56 injuries

2018 – 53 injuries

82.9% of total crashes occurred during clear or cloudy weather

31.4% of total crashes occurred on Friday and Saturdays

22.4% of total crashes were rear-end type crashes

19.0% of total crashes involved people 65 years old and over

33.8% of total crashes involved young driver (15 years old – 25 years old)

11.5% of total crashes were speed related

6.8% of total crashes were distracted driving related

Of these crashes –

13.8% -Manually operating an electronic communication device (texting, typing, dialing)

0.8% - Talking on hands-free communication device

1.2% - Talking on hand-held communication device

13.2% - Other activity with electronic device

36.5% - Passenger

35.4% - Other distraction inside the vehicle

0% - Other distraction outside vehicle

6.0% of total crashes indicated drugs and/or alcohol suspected

Of these crashes –

77.8% - alcohol suspected

22.2% - drugs suspected

1.8% of total crashes were motorcycle related

1.0% of total crashes were bicycle and pedestrian related

## ERPC MPO Region – Comparison Chart

Category	Number of Crashes		Difference	Percent Change
	Years 2015-2017	Years 2016-2018		
School Zone	14	21	7	↑ 50.00%
Pedestrian	46	49	3	↑ 6.52%
65 yrs and Older	1306	1355	49	↑ 3.75%
Speed	817	822	5	↑ 0.61%
Drugs	100	100	0	↔ 0.00%
Motorcycle	126	122	-4	↓ -3.17%
Youth (15yrs -25yrs)	2530	2409	-121	↓ -4.78%
Alcohol	371	349	-22	↓ -5.93%
Serious Injuries	229	213	-16	↓ -6.99%
Work Zone	267	247	-20	↓ -7.49%
Distracted	543	491	-52	↓ -9.58%
Fatalities	30	27	-3	↓ -10.00%
Bicycle	30	25	-5	↓ -16.67%

## 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 2016 - 2018)**

RANK	JURISDICTION	INTERSECTION	NUMBER OF CRASHES
1	PERKINS TOWNSHIP	US 250 @ STRUB RD	45
2	SANDUSKY	PERKINS AVE @ COLUMBUS AVE	40
3	PERKINS TOWNSHIP	SR 4 @ PERKINS AVE	35
4	PERKINS TOWNSHIP	US 250 @ HULL RD	34
5	PERKINS TOWNSHIP	STRUB RD @ COLUMBUS AVE	29
6	PERKINS TOWNSHIP	SR 4 @ STRUB RD	28
6	SANDUSKY	US 250 @ PERKINS AVE	28
6	PERKINS TOWNSHIP	US 250 @ BOGART RD	28
7	PERKINS TOWNSHIP	PERKINS AVE @ CAMPBELL ST	27
8	GROTON TOWNSHIP	SR 4 @ SR 99	23
9	HURON TOWNSHIP	US 6 @ PERKINS AVE	22
9	MILAN TOWNSHIP	US 250 @ SR 13	22
9	PERKINS TOWNSHIP	US 250 @ MALL BLVD	22
10	PERKINS TOWNSHIP	US 250 @ KALAHARI DR	20
10	PERKINS TOWNSHIP	US 250 @ FUN DR	20
10	SANDUSKY	COLUBMUS AVE @ MONROE ST	20
11	PERKINS TOWNSHIP	US 250 @ CROSSINGS RD	18
12	MARGARETTA TOWNSHIP	SR 269 @ PORTLAND RD	17
13	SANDUSKY	US 6 @ CEDAR POINT DR	16
13	HURON TOWNSHIP	US 6 @ CAMP RD	16
13	PERKINS TOWNSHIP	US 250 @ SR 2 (WB Ramps)	16
14	SANDUSKY	TIFFIN AVE @ VENICE RD/SANFORD ST	14
14	SANDUSKY	SR 4 @ TYLER ST	14
15	HURON	RYE BEACH RD @ SR 2 (WB Ramps)	13
15	SANDUSKY	MONROE ST @ WAYNE ST	13
15	MILAN TOWNSHIP	US 250 @ MASON RD	13
15	MILAN TOWNSHIP	US 250 @ SR 113 East	13
16	SANDUSKY	PERKINS AVE @ CALDWELL ST	12
16	PERKINS TOWNSHIP	US 250 @ SR 2 (EB Ramps)	12
17	PERKINS TOWNSHIP	US 250 @ DEWITT AVE	11
17	SANDUSKY	WARREN ST @ SCOTT ST	11
17	VERMILION TOWNSHIP	SR 60 @ SAILORWAY DR	11
17	HURON	US 6 @ RYEBEACH RD	11
17	SANDUSKY	PERKINS AVE @ 52ND ST	11
17	SANDUSKY	MONROE ST @ CAMP ST	11
17	MILAN TOWNSHIP	MASON RD @ KELLEY RD	11
17	SANDUSKY	MONROE ST @ HANCOCK ST	11
18	SANDUSKY	US 6 @ REMINGTON AVE	10
18	SANDUSKY	PERKINS AVE @ PIPE ST	10
18	SANDUSKY	COLUMBUS AVE @ PARISH ST	10
18	SANDUSKY	COLUMBUS AVE @ FARWELL ST	10
18	HURON	US 6 @ SR 13	10
18	MILAN TOWNSHIP	US 250 @ HURON AVERY RD	10
18	SANDUSKY	SR 4 @ PEIRCE ST	10
18	PERKINS TOWNSHIP	SR 4 @ SR 2 (EB Ramps)	10
18	MILAN TOWNSHIP	US 250 @ SR 113 West	10
19	BERLIN TOWNSHIP	SR 113 @ SR 61 (South)	9
19	MARGARETTA TOWNSHIP	US 6 @ SR 269 (North)	9
19	VERMILION	US 6 @ SUNNYSIDE RD	9
19	SANDUSKY	MILAN RD @ SCOTT ST	9
19	PERKINS TOWNSHIP	SR 4 @ BOGART RD	9

Note: Intersection only crashes with 9 or more crashes over the years 2016-2018 are listed

Source: Ohio Department of Transportation TIMS/GCAT System (250 ft. buffer applied around each intersection)

**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	45	1.52
2	SANDUSKY	PERKINS AVE @ COLUMBUS AVE	40	
3	PERKINS TOWNSHIP	SR 4 @ PERKINS AVE	35	1.06
4	PERKINS TOWNSHIP	US 250 @ HULL RD	34	
5	PERKINS TOWNSHIP	STRUB RD @ COLUMBUS AVE	29	
6	PERKINS TOWNSHIP	SR 4 @ STRUB RD	28	1.67
6	SANDUSKY	US 250 @ PERKINS AVE	28	0.87
6	PERKINS TOWNSHIP	US 250 @ BOGART RD	28	0.82
7	PERKINS TOWNSHIP	PERKINS AVE @ CAMPBELL ST	27	0.81
8	GROTON TOWNSHIP	SR 4 @ SR 99	23	1.89
9	HURON TOWNSHIP	US 6 @ PERKINS AVE	22	1.65
9	MILAN TOWNSHIP	US 250 @ SR 13	22	0.98
9	PERKINS TOWNSHIP	US 250 @ MALL BLVD	22	
10	PERKINS TOWNSHIP	US 250 @ KALAHARI DR	20	
10	PERKINS TOWNSHIP	US 250 @ FUN DR	20	
10	SANDUSKY	COLUBMUS AVE @ MONROE ST	20	
11	PERKINS TOWNSHIP	US 250 @ CROSSINGS RD	18	
12	MARGARETTA TOWNSHIP	SR 269 @ PORTLAND RD	17	2.41
13	SANDUSKY	US 6 @ CEDAR POINT DR	16	
13	HURON TOWNSHIP	US 6 @ CAMP RD	16	0.95
13	PERKINS TOWNSHIP	US 250 @ SR 2 (WB Ramps)	16	0.48
14	SANDUSKY	TIFFIN AVE @ VENICE RD/SANFORD ST	14	0.87
14	SANDUSKY	SR 4 @ TYLER ST	14	0.99
15	HURON	RYE BEACH RD @ SR 2 (WB Ramps)	13	
15	SANDUSKY	MONROE ST @ WAYNE ST	13	
15	MILAN TOWNSHIP	US 250 @ MASON RD	13	0.68
15	MILAN TOWNSHIP	US 250 @ SR 113 East	13	0.53
16	SANDUSKY	PERKINS AVE @ CALDWELL ST	12	
16	PERKINS TOWNSHIP	US 250 @ SR 2 (EB Ramps)	12	0.33
17	PERKINS TOWNSHIP	US 250 @ DEWITT AVE	11	0.51
17	SANDUSKY	WARREN ST @ SCOTT ST	11	
17	VERMILION TOWNSHIP	SR 60 @ SAILORWAY DR	11	
17	HURON	US 6 @ RYE BEACH RD	11	
17	SANDUSKY	PERKINS AVE @ 52ND ST	11	
17	SANDUSKY	MONROE ST @ CAMP ST	11	1.11
17	MILAN TOWNSHIP	MASON RD @ KELLEY RD	11	
17	SANDUSKY	MONROE ST @ HANCOCK ST	11	
18	SANDUSKY	US 6 @ REMINGTON AVE	10	
18	SANDUSKY	PERKINS AVE @ PIPE ST	10	0.76
18	SANDUSKY	COLUMBUS AVE @ PARISH ST	10	
18	SANDUSKY	COLUMBUS AVE @ FARWELL ST	10	
18	HURON	US 6 @ SR 13	10	0.68
18	MILAN TOWNSHIP	US 250 @ HURON AVERY RD	10	0.56
18	SANDUSKY	SR 4 @ PEIRCE ST	10	0.80
18	PERKINS TOWNSHIP	SR 4 @ SR 2 (EB Ramps)	10	0.83
18	MILAN TOWNSHIP	US 250 @ SR 113 West	10	0.40
19	BERLIN TOWNSHIP	SR 113 @ SR 61 (South)	9	2.71
19	MARGARETTA TOWNSHIP	US 6 @ SR 269 (North)	9	0.92
19	VERMILION	US 6 @ SUNNYSIDE RD	9	1.39
19	SANDUSKY	MILAN RD @ SCOTT ST	9	
19	PERKINS TOWNSHIP	SR 4 @ BOGART RD	9	0.62

Note: Intersection only crashes with 9 or more crashes over the years 2016-2018 are listed

Source: Ohio Department of Transportation TIMS/GCAT System (250 ft. buffer applied around each intersection)

# Erie County Regional Planning MPO 2016-2018 Crash Data Summary

	Number
<b>Total</b>	<b>7123</b>

CRASH_SEVERITY	Number	%
Fatal Crash	27	0.4%
Injury Crash	1549	21.7%
Property Damage Crash	5547	77.9%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

TRAFFIC_CRASH_YEAR	Number	%
2016	2445	34.3%
2017	2425	34.0%
2018	2253	31.6%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

DAY_OF_WEEK	Number	%
Friday	1213	17.0%
Saturday	1026	14.4%
Monday	1004	14.1%
Wednesday	1004	14.1%
Thursday	981	13.8%
Tuesday	968	13.6%
Sunday	927	13.0%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

HOUR_OF_DAY	Number	%
0	123	1.7%
1	104	1.5%
10	323	4.5%
11	341	4.8%
12	419	5.9%
13	413	5.8%
14	490	6.9%
15	560	7.9%
16	525	7.4%
17	479	6.7%
18	424	6.0%
19	343	4.8%
2	130	1.8%
20	307	4.3%
21	294	4.1%
22	230	3.2%
23	199	2.8%
3	93	1.3%
4	98	1.4%
5	125	1.8%
6	227	3.2%
7	324	4.5%
8	280	3.9%
9	272	3.8%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

TYPE_OF_CRASH	Number	%
Rear End	1594	22.4%
Fixed Object	1350	19.0%
Animal	882	12.4%
Sideswipe - Passing	830	11.7%
Left Turn	542	7.6%
Angle	523	7.3%
Parked Vehicle	340	4.8%
Backing	305	4.3%
Other Non-Collision	168	2.4%
Other Object	151	2.1%
Right Turn	142	2.0%
Head On	102	1.4%
Sideswipe - Meeting	54	0.8%
Pedestrian	49	0.7%
Overturning	41	0.6%
Pedalcycles	25	0.4%
Unknown	22	0.3%
Train	3	0.0%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

## Erie County Regional Planning MPO 2016-2018 Crash Data Summary

WEATHER_CONDITION	Number	%
Clear	4360	61.2%
Cloudy	1549	21.7%
Rain	642	9.0%
Snow	396	5.6%
Other/Unknown	78	1.1%
Sleet, Hail	45	0.6%
Fog, Smog, Smoke	21	0.3%
Blowing Sand, Soil, Dirt, Snow	20	0.3%
Severe Crosswinds	12	0.2%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

ROAD_CONDITION	Number	%
Dry	5323	74.7%
Wet	1169	16.4%
Snow	376	5.3%
Ice	173	2.4%
Unknown	42	0.6%
Slush	33	0.5%
Sand, Mud, Dirt, Oil, Gravel	4	0.1%
Water (Standing, Moving)	2	0.0%
Other	1	0.0%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

LIGHT_CONDITION	Number	%
Daylight	4483	62.9%
Dark - Roadway Not Lighted	1184	16.6%
Dark - Lighted Roadway	948	13.3%
Dawn	175	2.5%
Dusk	148	2.1%
Unknown	93	1.3%
Dark - Unknown Roadway Lighting	91	1.3%
Other	1	0.0%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

NUMBER_OF_VEHICLES	Number	%
1	2638	37.0%
2	4167	58.5%
3	277	3.9%
4	37	0.5%
6	1	0.0%
7	1	0.0%
9	1	0.0%
10	1	0.0%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

LOCATION	Number	%
Not An Intersection	4765	66.9%
Four-Way Intersection	1194	16.8%
T-Intersection	694	9.7%
Driveway/Alley Access	264	3.7%
Off Ramp	78	1.1%
Y-Intersection	39	0.5%
On Ramp	36	0.5%
5 Or More Point Intersection	25	0.4%
Railroad Grade Crossing	11	0.2%
Crossover	10	0.1%
Traffic Circle/Roundabout	5	0.1%
Unknown	2	0.0%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

CRASH_MONTH_NBR	Number	%
1	594	8.3%
2	449	6.3%
3	541	7.6%
4	465	6.5%
5	656	9.2%
6	635	8.9%
7	653	9.2%
8	617	8.7%
9	530	7.4%
10	645	9.1%
11	647	9.1%
12	691	9.7%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

ROAD_CONTOUR	Number	%
Straight Level	6032	84.7%
Straight Grade	567	8.0%
Curve Level	374	5.3%
Curve Grade	150	2.1%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

SPECIAL_AREA	Number	%
(blank)	7123	100.0%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

ANIMAL_TYPE	Number	%
(blank)	7123	100.0%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

## Erie County Regional Planning MPO 2016-2018 Crash Data Summary

<b>ACTION1</b>	<b>Number</b>	<b>%</b>
Straight Ahead	4724	66.3%
Making Left Turn	608	8.5%
Backing	306	4.3%
Changing Lanes	296	4.2%
Slowing Or Stopped In Traffic	234	3.3%
Making Right Turn	216	3.0%
Negotiating A Curve	186	2.6%
Entering Traffic Lane	152	2.1%
Unknown	131	1.8%
Overtaking/Passing	90	1.3%
Parked	50	0.7%
Other Motorist Action	44	0.6%
Leaving Traffic Lane	40	0.6%
Entering Or Crossing Specified Location	16	0.2%
Walking, Running, Jogging, Playing, Cycling	15	0.2%
Making U-Turn	7	0.1%
Driverless	6	0.1%
Other Non-Motorist Action	2	0.0%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

	<b>Number</b>	<b>%</b>
<b>Total</b>	<b>7123</b>	<b>100.0%</b>

<b>DRIVER_ALCOHOL1</b>	<b>Number</b>	<b>%</b>
No	6774	95.1%
Yes	349	4.9%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

<b>CONTRIBUTING_FACTOR1</b>	<b>Number</b>	<b>%</b>
Followed To Closely/ACDA	1514	21.3%
None-Motorist	1454	20.4%
Failure To Control	1115	15.7%
Failure To Yield	868	12.2%
Improper Lane Change/Passing/Offroad	564	7.9%
Unsafe Speed	318	4.5%
Improper Backing	260	3.7%
Unknown	228	3.2%
Ran Red Light	122	1.7%
Improper Turn	101	1.4%
Operating Defective Equipment	95	1.3%
Other Improper Action	92	1.3%
Left Of Center	80	1.1%
Load Shifting/Falling/Spilling	57	0.8%
Swerving To Avoid	55	0.8%
Operating Vehicle In Negligent Manner	50	0.7%
Improper Start From Parked Position	40	0.6%
Ran Stop Sign	39	0.5%
Wrong Side/Wrong Way	13	0.2%
Vision Obstruction	12	0.2%
Improper Crossing	11	0.2%
Exceeded Speed Limit	9	0.1%
Darting	7	0.1%
Stopped Or Parked Illegally	6	0.1%
Inattentive	4	0.1%
Failure To Yield Right Of Way	3	0.0%
Failure To Obey Signs/Signals/Officer	2	0.0%
Wrong Side Of The Road	1	0.0%
Other Non-Motorist	1	0.0%
Not Visible (Dark Clothing)	1	0.0%
None Non-Motorist	1	0.0%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

<b>TRAFFIC_CONTROL1</b>	<b>Number</b>	<b>%</b>
Pavement Markings	3963	55.6%
No Controls	1348	18.9%
Traffic Signal	1013	14.2%
Stop Sign	581	8.2%
Construction Barricade	100	1.4%
Traffic Flashers	27	0.4%
Other	27	0.4%
Railroad Gates	19	0.3%
Yield Sign	18	0.3%
Person (Flagger, Officer)	7	0.1%
School Zone	7	0.1%
Crosswalk Lines	5	0.1%
Not Reported	4	0.1%
Railroad Crossbucks	3	0.0%
Walk/Do Not Walk	1	0.0%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

<b>DRIVER_DRUGS1</b>	<b>Number</b>	<b>%</b>
No	7023	98.6%
Yes	100	1.4%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

## Erie County Regional Planning MPO 2016-2018 Crash Data Summary

DIRECTION_FROM1	Number	%
East	2010	28.2%
West	1937	27.2%
South	1527	21.4%
North	1341	18.8%
Unknown	101	1.4%
Northeast	64	0.9%
Southwest	53	0.7%
Southeast	47	0.7%
Northwest	43	0.6%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

DIRECTION_TO1	Number	%
West	1963	27.6%
East	1910	26.8%
North	1485	20.8%
South	1393	19.6%
Unknown	115	1.6%
Southwest	77	1.1%
Southeast	64	0.9%
Northeast	64	0.9%
Northwest	52	0.7%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

POSTED_SPEED1	Number	%
25	1	100.0%
<b>Grand Total</b>	<b>1</b>	<b>100.0%</b>

ESTIMATED_SPEED1	Number	%
10	1	100.0%
<b>Grand Total</b>	<b>1</b>	<b>100.0%</b>

VEHICLE_TYPE1	Number	%
Mid Size	1718	24.1%
Sport Utility Vehicle	1542	21.6%
Pickup	904	12.7%
Compact	868	12.2%
Full Size	572	8.0%
Unknown Or Hit/Skip	334	4.7%
Minivan	282	4.0%
Tractor/Semi-Trailer	256	3.6%
Sub-Compact	160	2.2%
Van	132	1.9%
Motorcycle	80	1.1%
Single Unit Truck Or Van 2 Axle, 6 Tires	72	1.0%
Single Unit Truck/Trailer	46	0.6%
Single Unit Truck; 3+ Axles	33	0.5%
Pedestrian/Skater	19	0.3%
Other Med/Heavy Vehicle	18	0.3%
Other Passenger Vehicle	17	0.2%
Bus/Van (9-15 Seats Inc Driver)	17	0.2%
Bicycle/Pedalcyclist	14	0.2%
Bus (16+ Seats, Inc Driver)	13	0.2%
Truck/Tractor (Bobtail)	11	0.2%
Tractor/Double	9	0.1%
Tractor/Triples	5	0.1%
Motorized Bicycle	1	0.0%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

VEHICLE_TYPE2	Number	%
Sport Utility Vehicle	2638	37.0%
Mid Size	1158	16.3%
Pickup	1080	15.2%
Compact	568	8.0%
Full Size	476	6.7%
Minivan	390	5.5%
Tractor/Semi-Trailer	218	3.1%
Sub-Compact	119	1.7%
Van	98	1.4%
Unknown Or Hit/Skip	97	1.4%
Motorcycle	49	0.7%
Single Unit Truck Or Van 2 Axle, 6 Tires	48	0.7%
Pedestrian/Skater	43	0.6%
Single Unit Truck/Trailer	30	0.4%
Single Unit Truck; 3+ Axles	26	0.4%
Other Med/Heavy Vehicle	16	0.2%
Other Passenger Vehicle	14	0.2%
Bus (16+ Seats, Inc Driver)	14	0.2%
Bicycle/Pedalcyclist	12	0.2%
Tractor/Double	10	0.1%
Truck/Tractor (Bobtail)	7	0.1%
Bus/Van (9-15 Seats Inc Driver)	5	0.1%
Tractor/Triples	4	0.1%
Motorized Bicycle	2	0.0%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

## Erie County Regional Planning MPO 2016-2018 Crash Data Summary

<b>ACTION2</b>	<b>Number</b>	<b>%</b>
	<b>2638</b>	<b>37.0%</b>
Straight Ahead	2065	29.0%
Slowing Or Stopped In Traffic	1408	19.8%
Parked	583	8.2%
Making Left Turn	166	2.3%
Making Right Turn	77	1.1%
Backing	35	0.5%
Unknown	28	0.4%
Walking, Running, Jogging, Playing, Cycling	23	0.3%
Negotiating A Curve	22	0.3%
Entering Traffic Lane	17	0.2%
Entering Or Crossing Specified Location	15	0.2%
Overtaking/Passing	14	0.2%
Other Motorist Action	13	0.2%
Changing Lanes	10	0.1%
Leaving Traffic Lane	5	0.1%
Driverless	2	0.0%
Standing	1	0.0%
Working	1	0.0%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

<b>CONTRIBUTING_FACTOR2</b>	<b>Number</b>	<b>%</b>
None-Motorist	1	100.0%
<b>Grand Total</b>	<b>1</b>	<b>100.0%</b>

<b>DIRECTION_FROM2</b>	<b>Number</b>	<b>%</b>
	<b>2638</b>	<b>37.0%</b>
West	1131	15.9%
South	1110	15.6%
East	1095	15.4%
North	975	13.7%
Northeast	47	0.7%
Unknown	46	0.6%
Southeast	29	0.4%
Northwest	27	0.4%
Southwest	25	0.4%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

<b>DIRECTION_TO2</b>	<b>Number</b>	<b>%</b>
	<b>2638</b>	<b>37.0%</b>
East	1128	15.8%
North	1101	15.5%
West	1087	15.3%
South	981	13.8%
Unknown	52	0.7%
Southwest	41	0.6%
Northeast	33	0.5%
Northwest	32	0.4%
Southeast	30	0.4%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

<b>DRIVER_ALCOHOL2</b>	<b>Number</b>	<b>%</b>
(blank)	7123	100.0%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

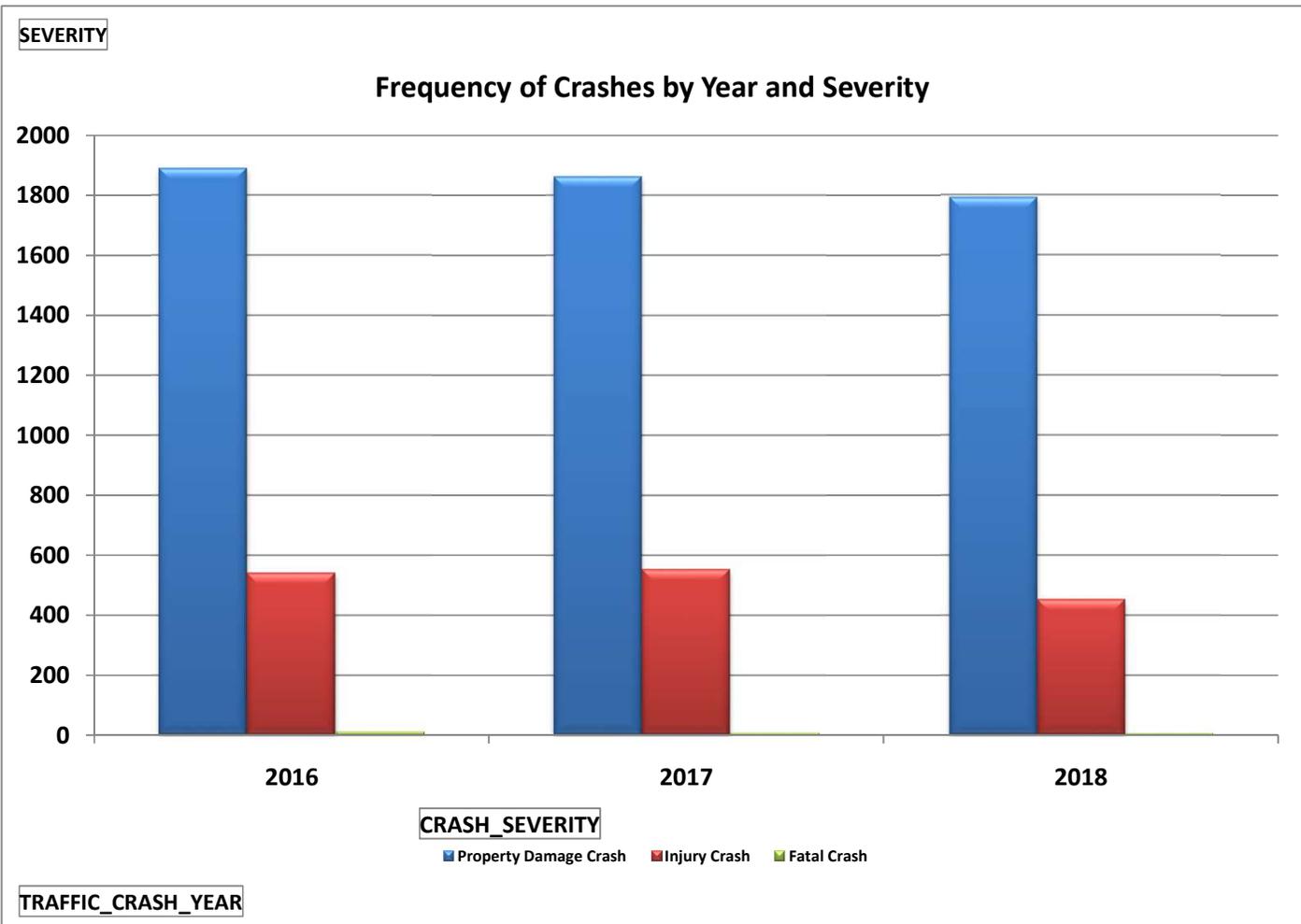
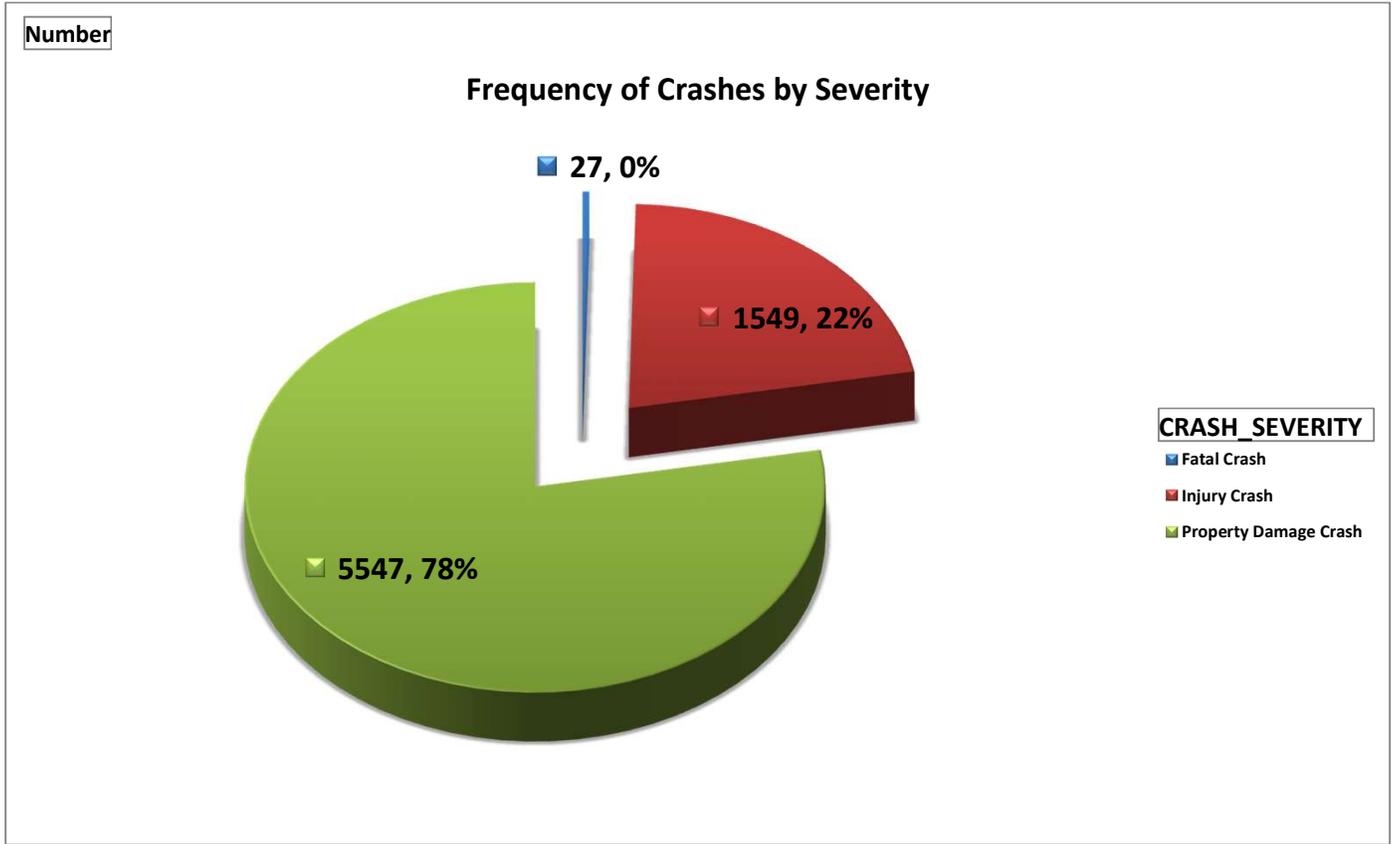
<b>DRIVER_DRUGS2</b>	<b>Number</b>	<b>%</b>
(blank)	7123	100.0%
<b>Grand Total</b>	<b>7123</b>	<b>100.0%</b>

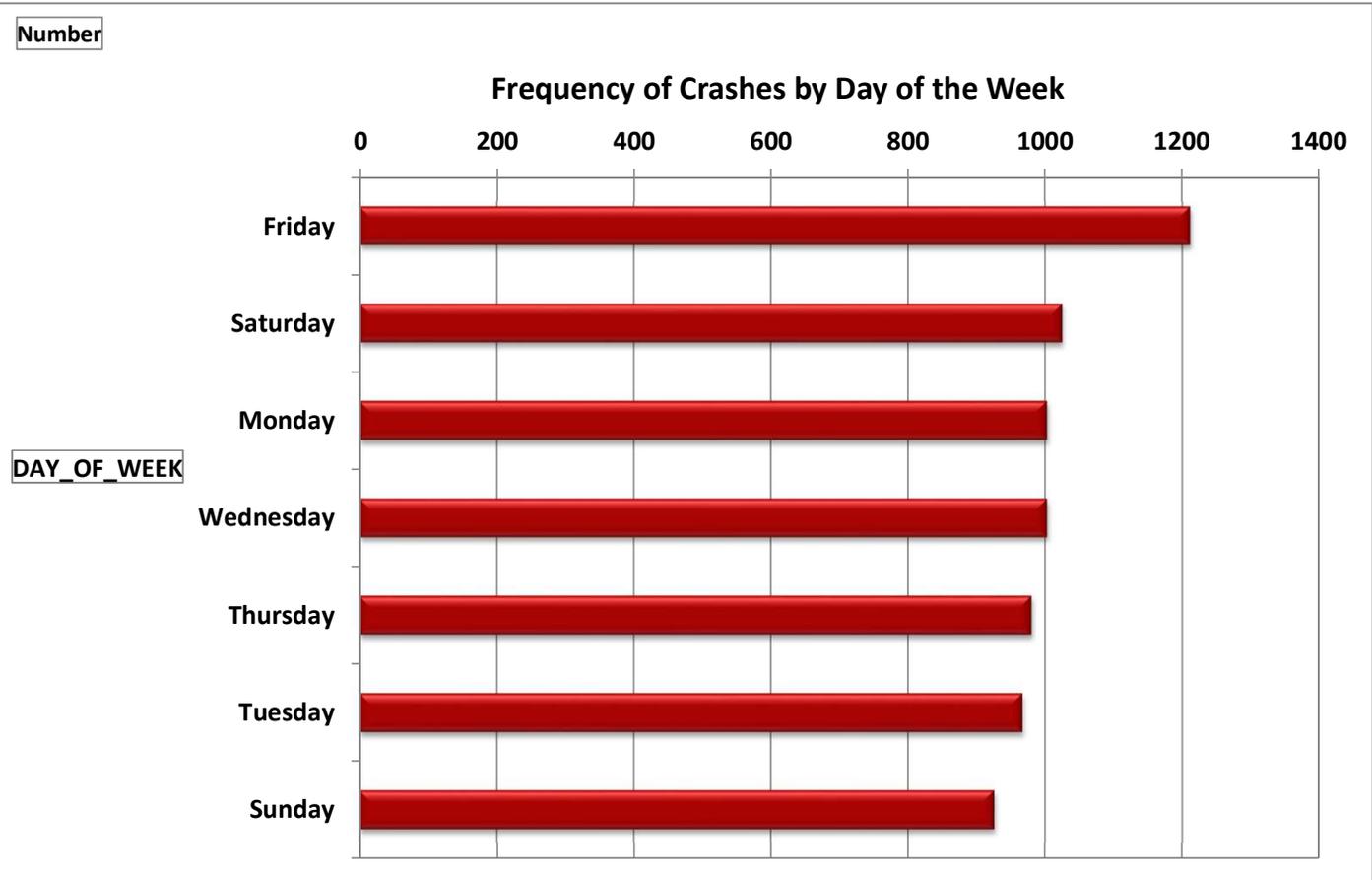
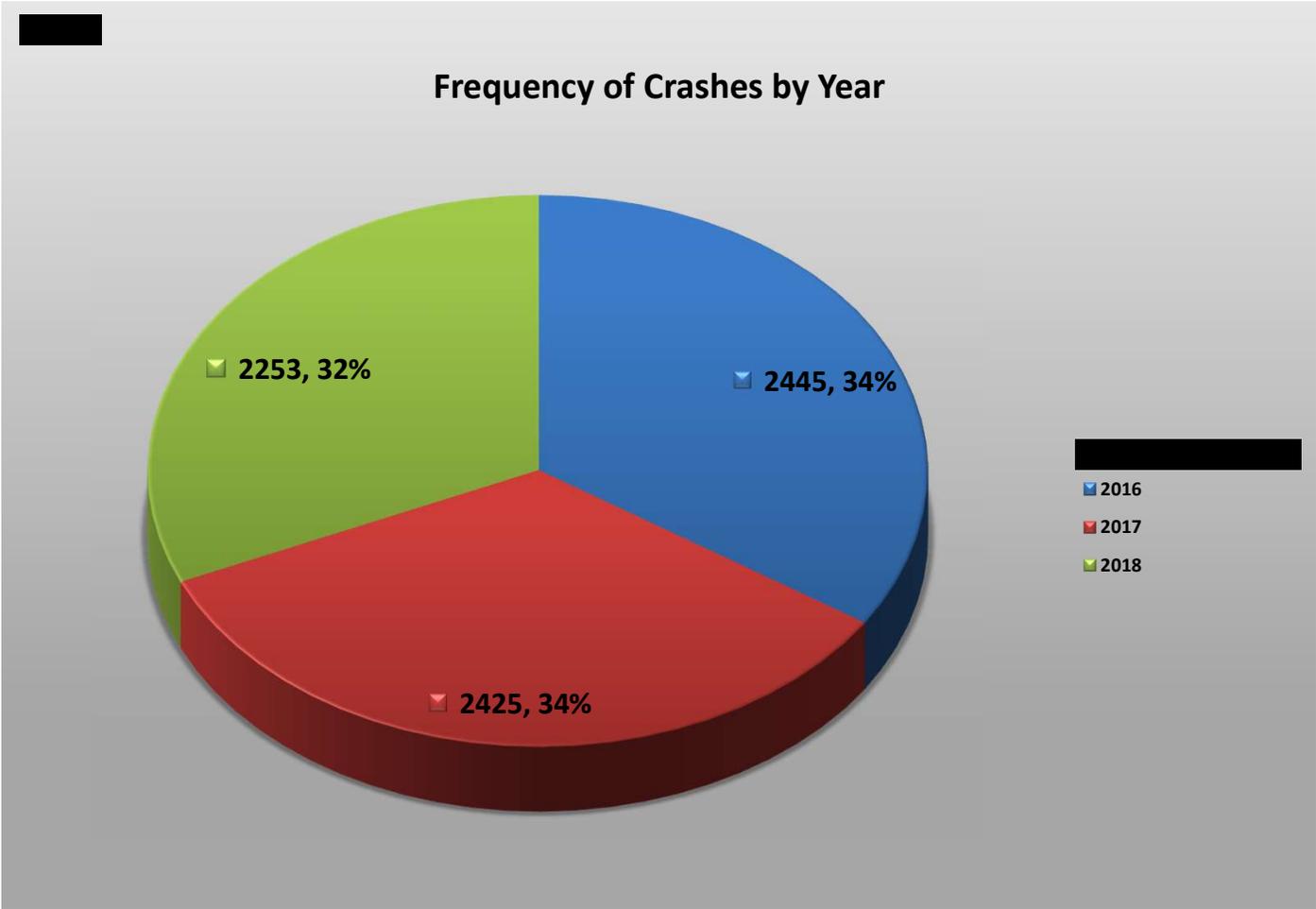
## Erie County Regional Planning MPO 2016-2018 Crash Data Summary

SEVERITY	CRASH_SEVERITY		
TRAFFIC_CRASH_YEAR	Property Damage Crash	Injury Crash	Fatal Crash
2016	1891	542	12
2017	1863	554	8
2018	1793	453	7
<b>Grand Total</b>	<b>5547</b>	<b>1549</b>	<b>27</b>

TRAFFIC_CRASH_YEAR	Fatalities	Incapacitating Injuries
2016	12	104
2017	8	56
2018	7	53
<b>Grand Total</b>	<b>27</b>	<b>213</b>

TRAFFIC_CRASH_YEAR	INJ_TYPE2_SERIOUS_VISIBLE	INJ_TYPE3_MINOR_VISIBLE	INJ_TYPE4_NO_VISIBLE
2016	104	320	369
2017	56	315	449
2018	53	294	325
<b>Grand Total</b>	<b>213</b>	<b>929</b>	<b>1143</b>

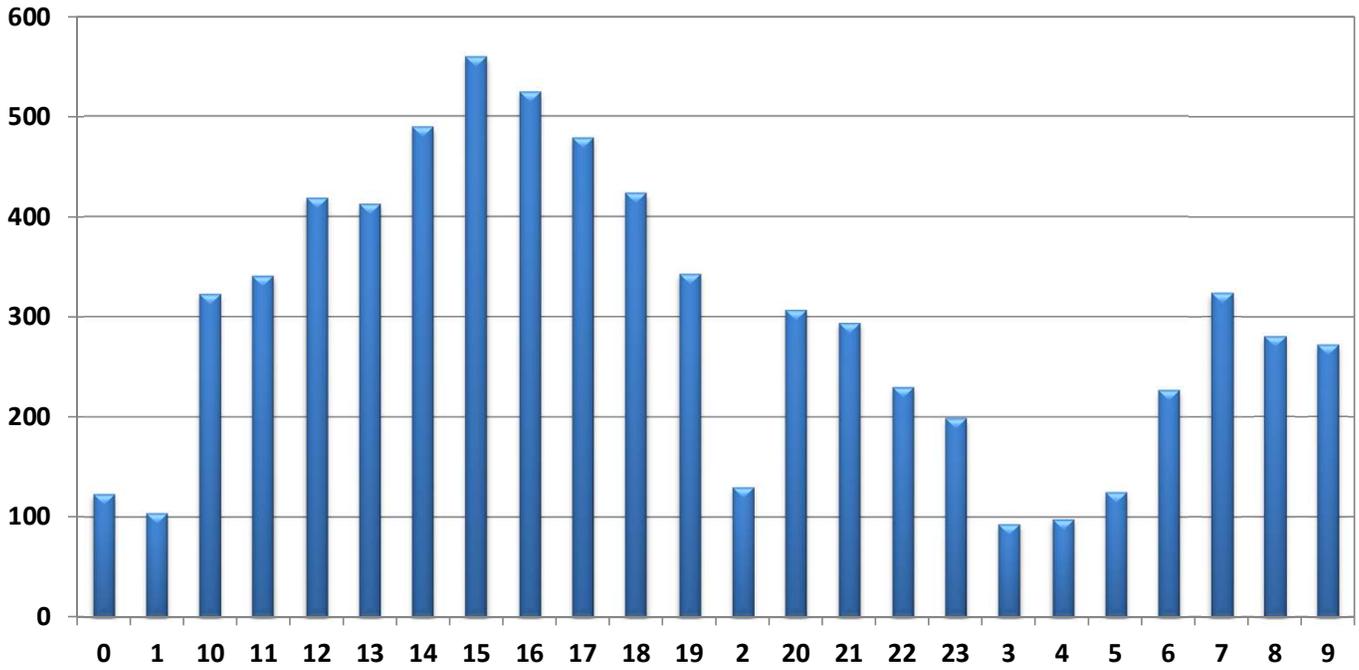




# Erie County Regional Planning MPO 2016-2018 Crash Data Summary

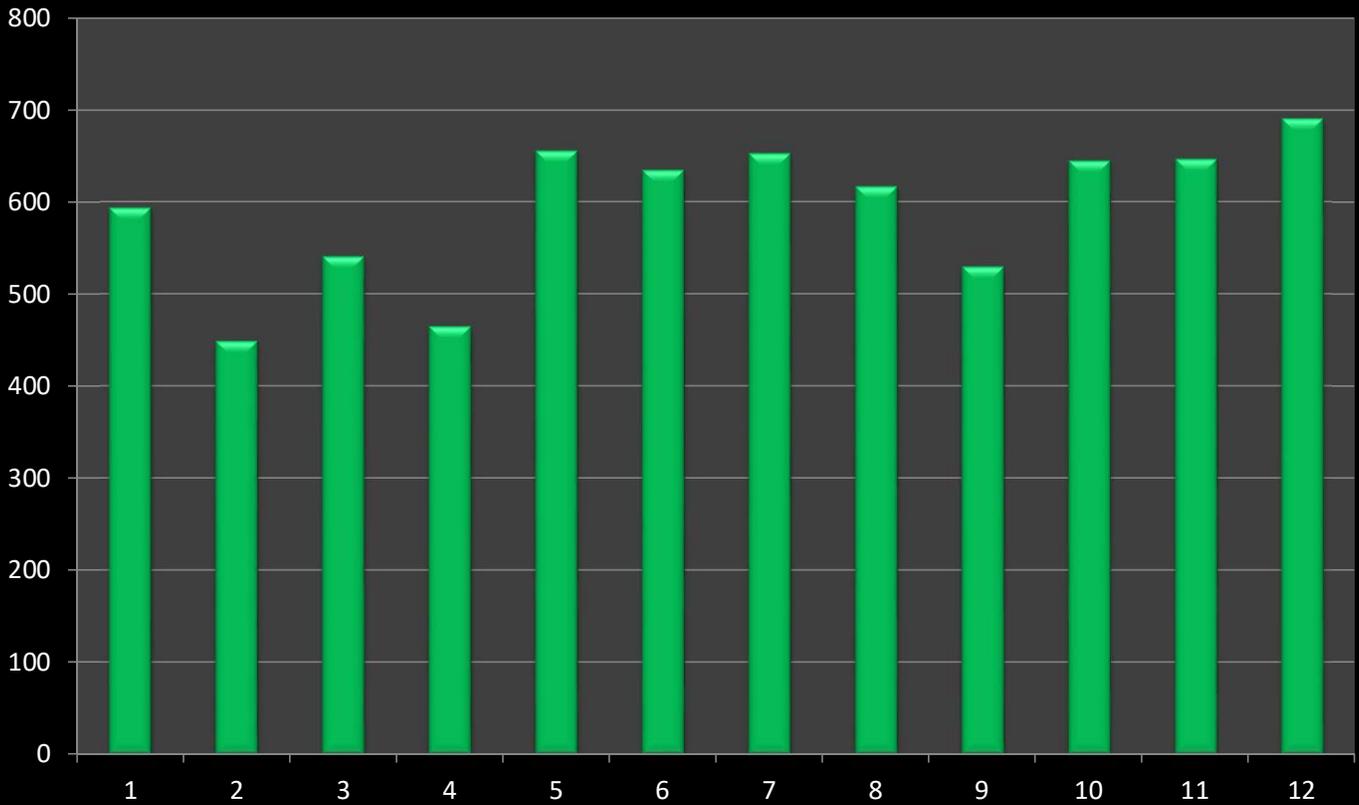


### Frequency of Crashes by Hour

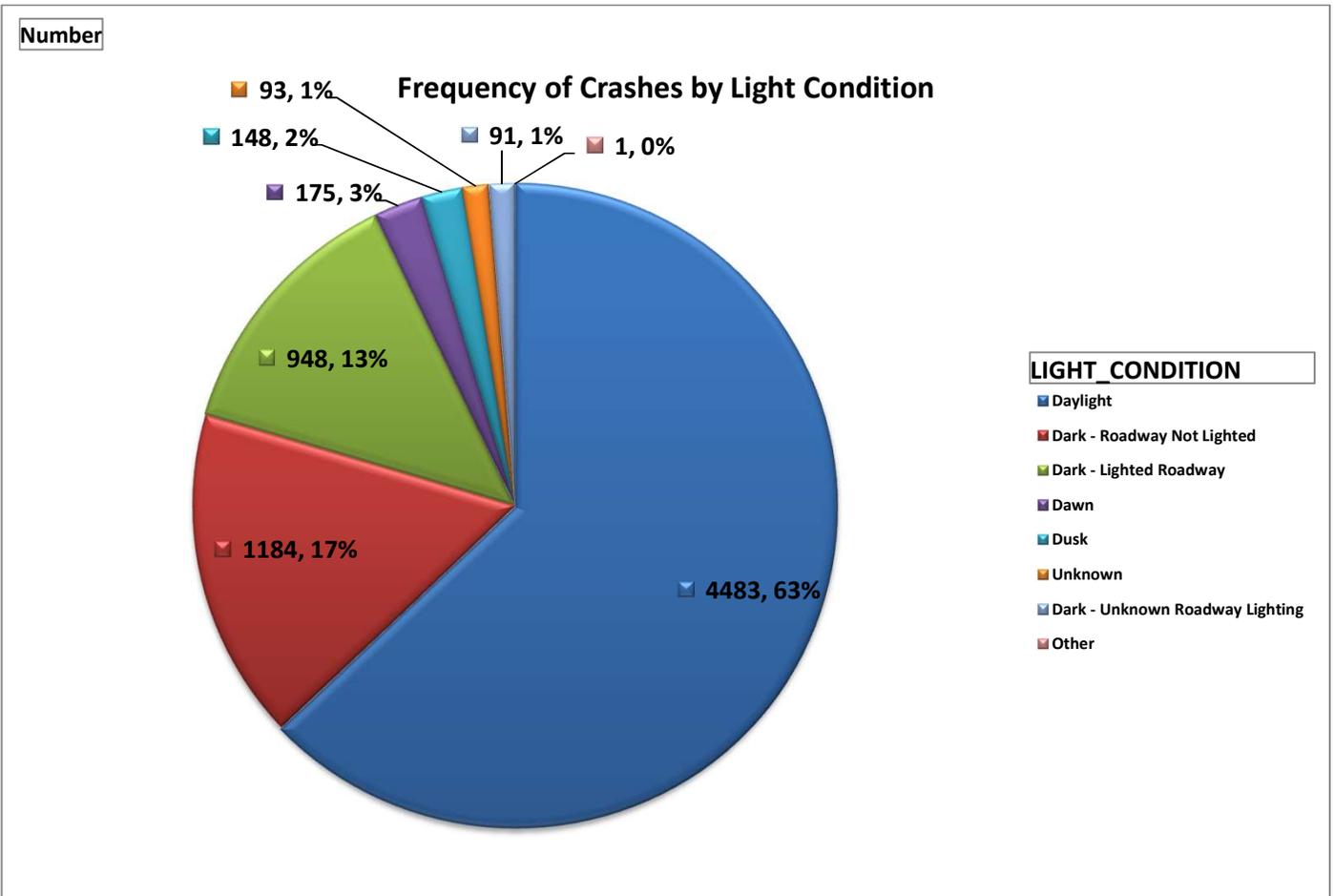
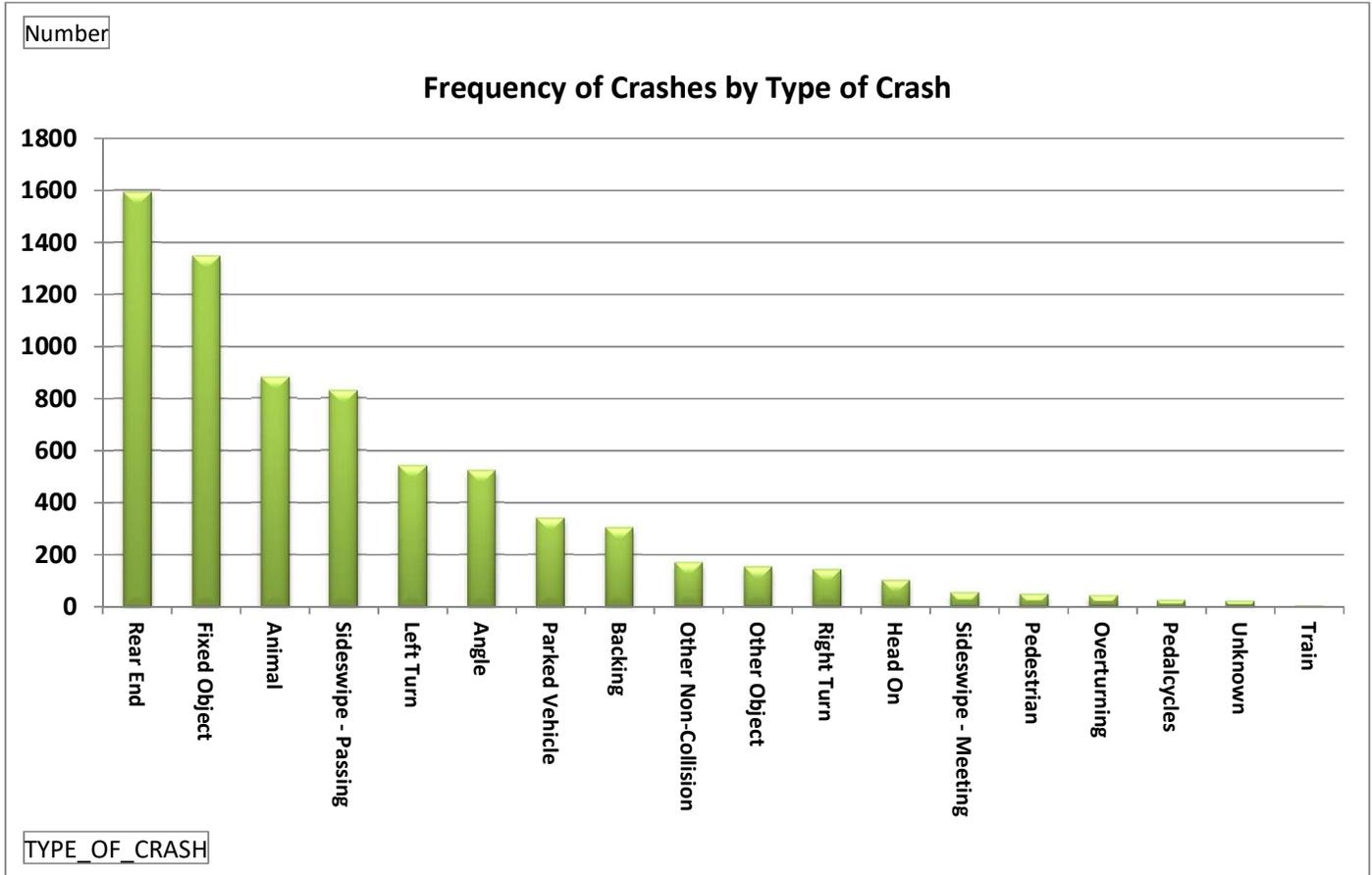


Number

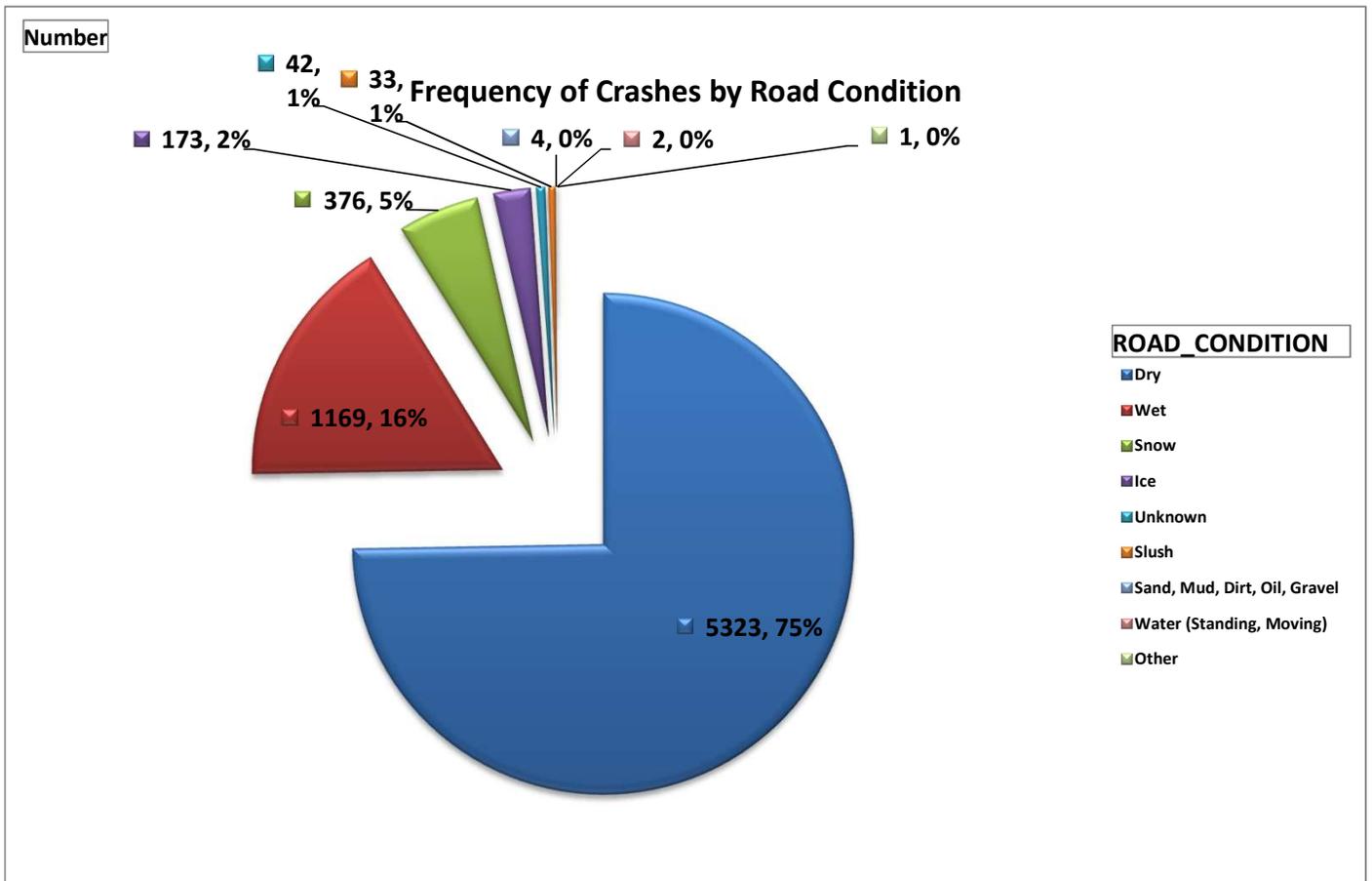
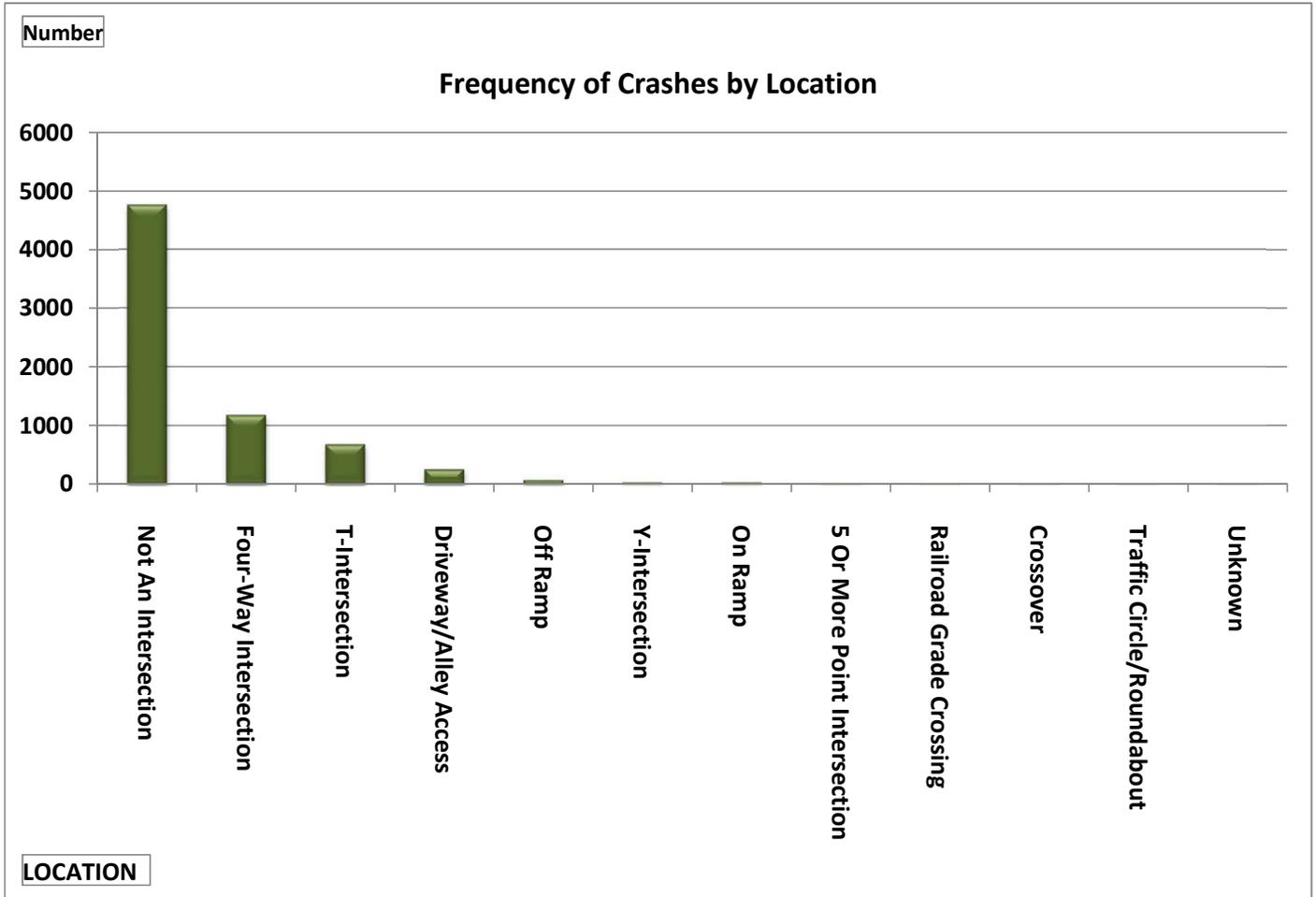
### Frequency of Crashes by Month

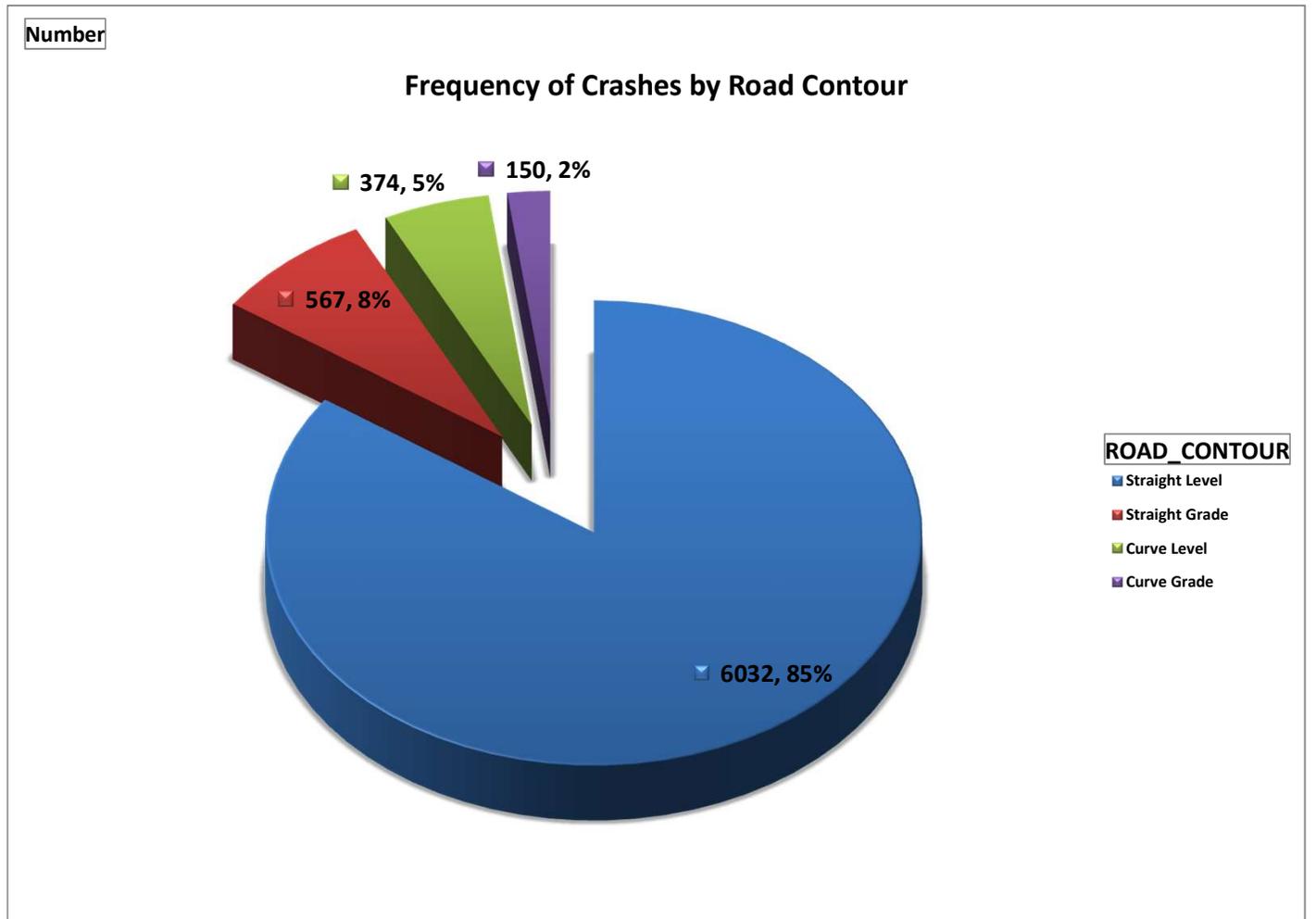
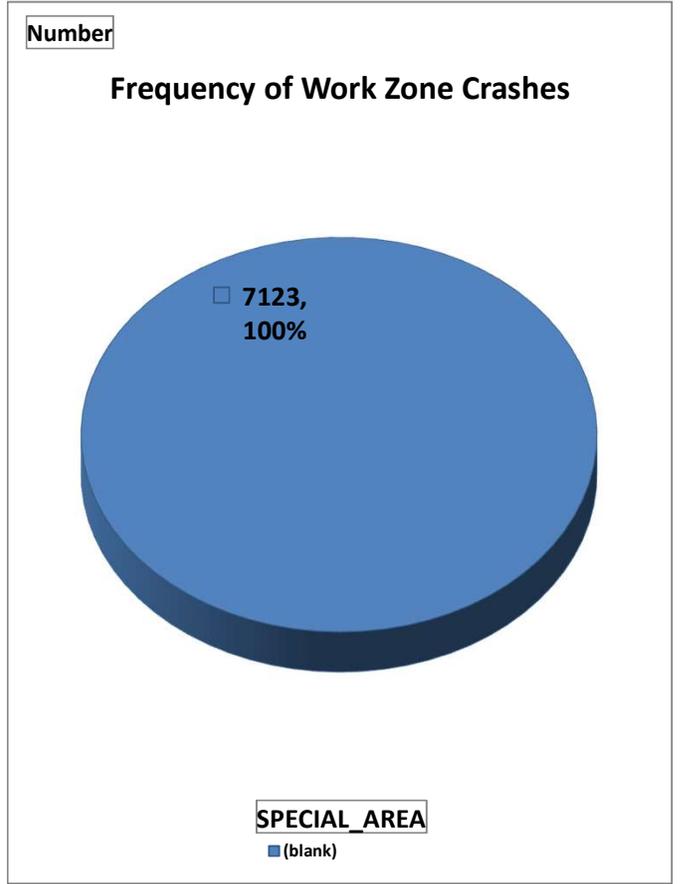
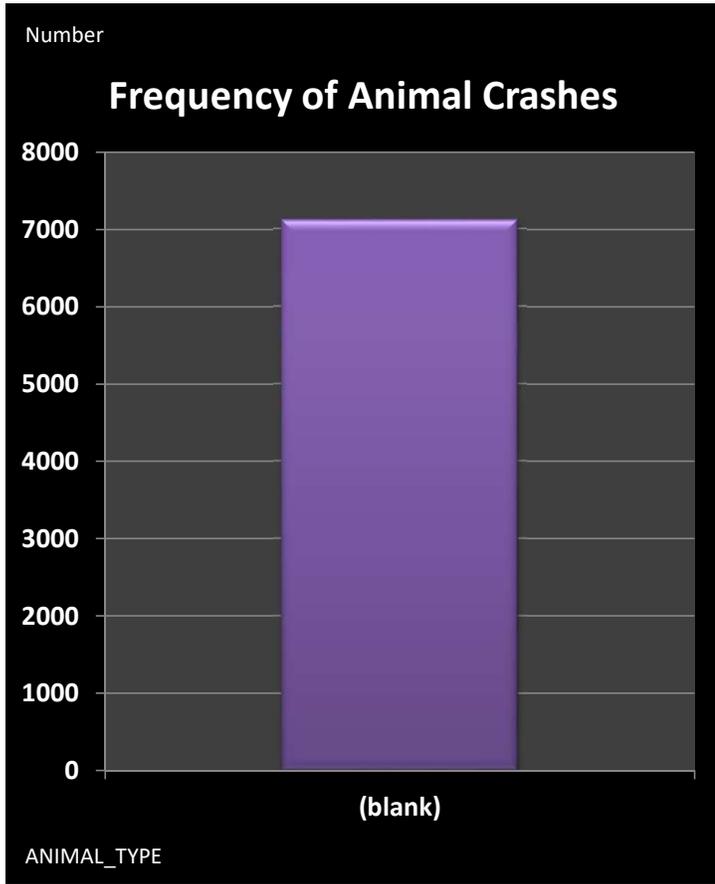


CRASH\_MONTH\_NBR

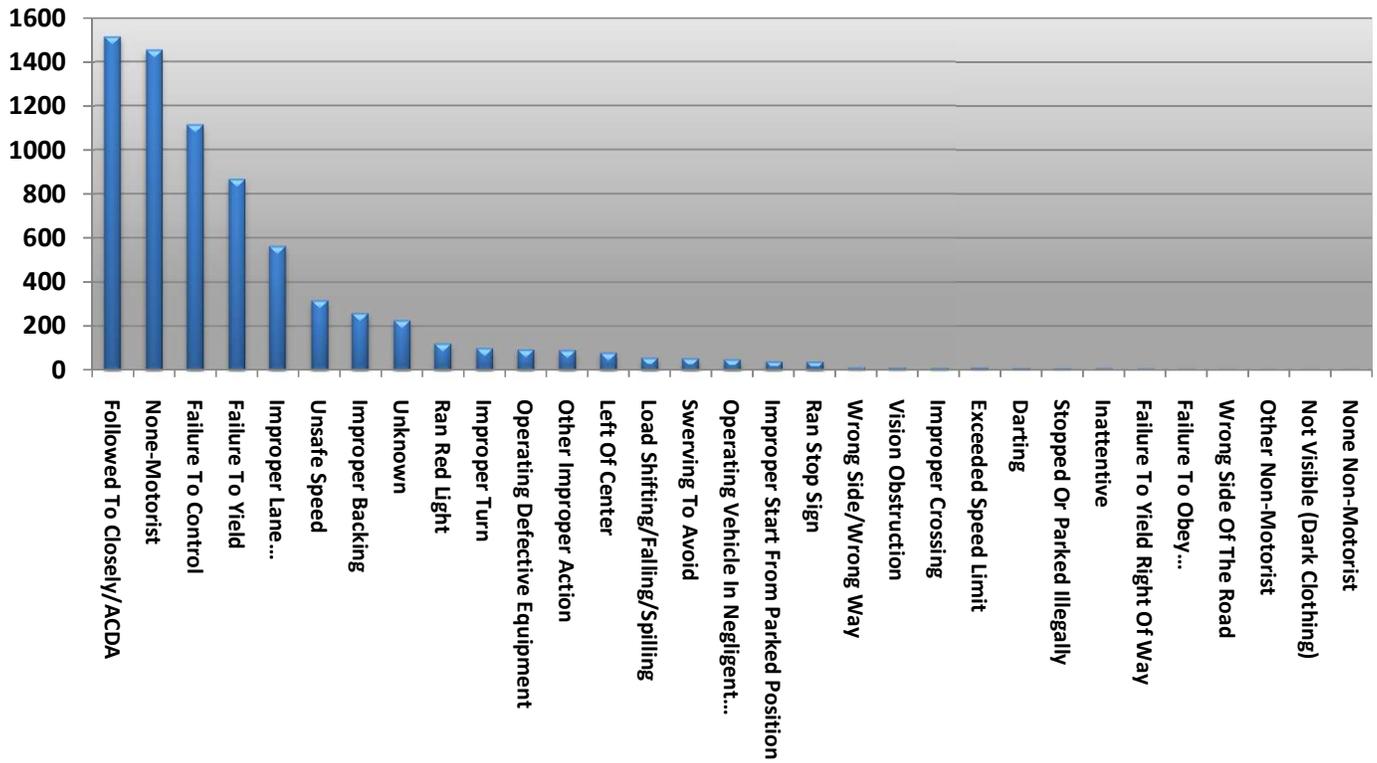


# Erie County Regional Planning MPO 2016-2018 Crash Data Summary

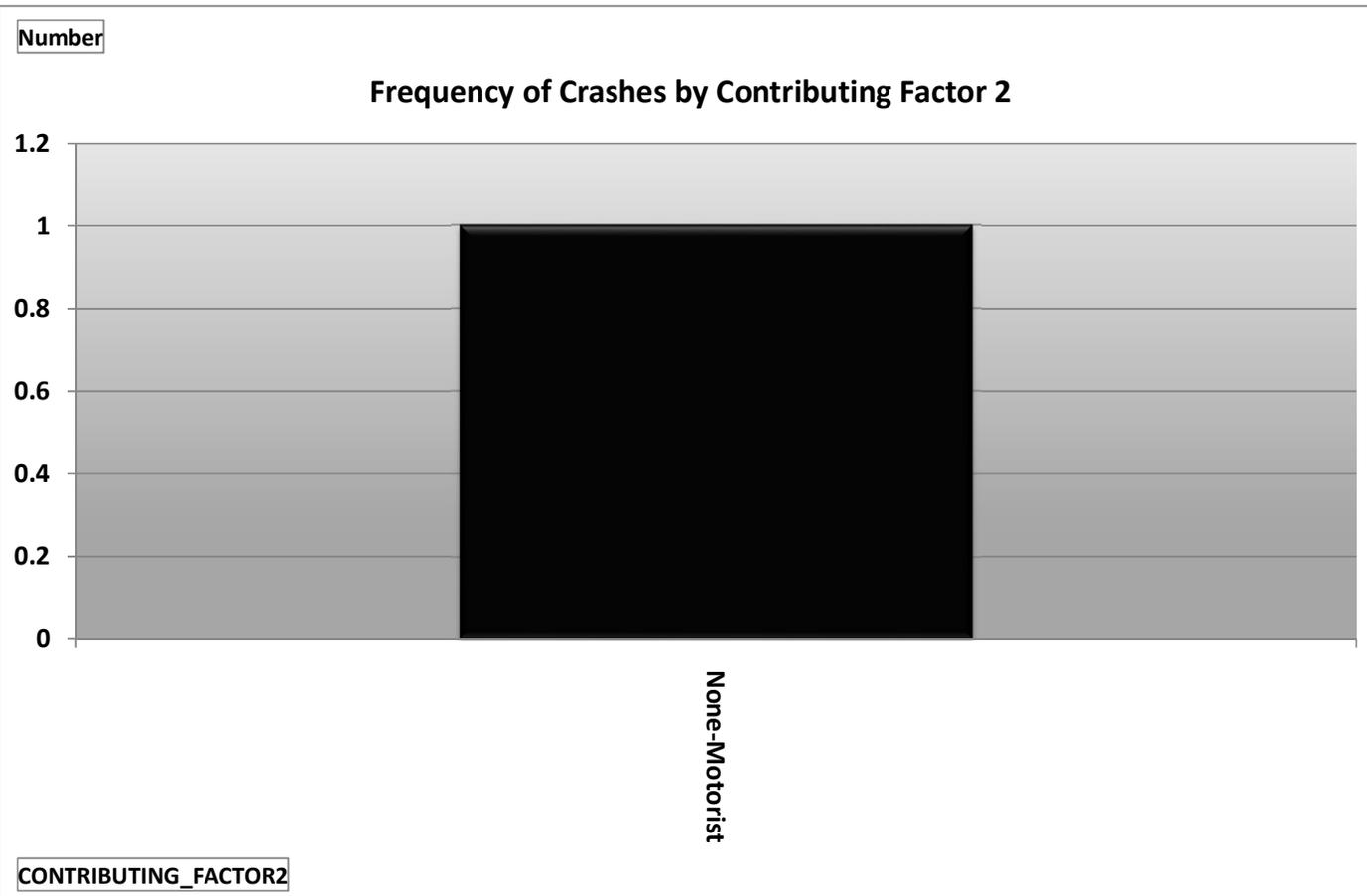


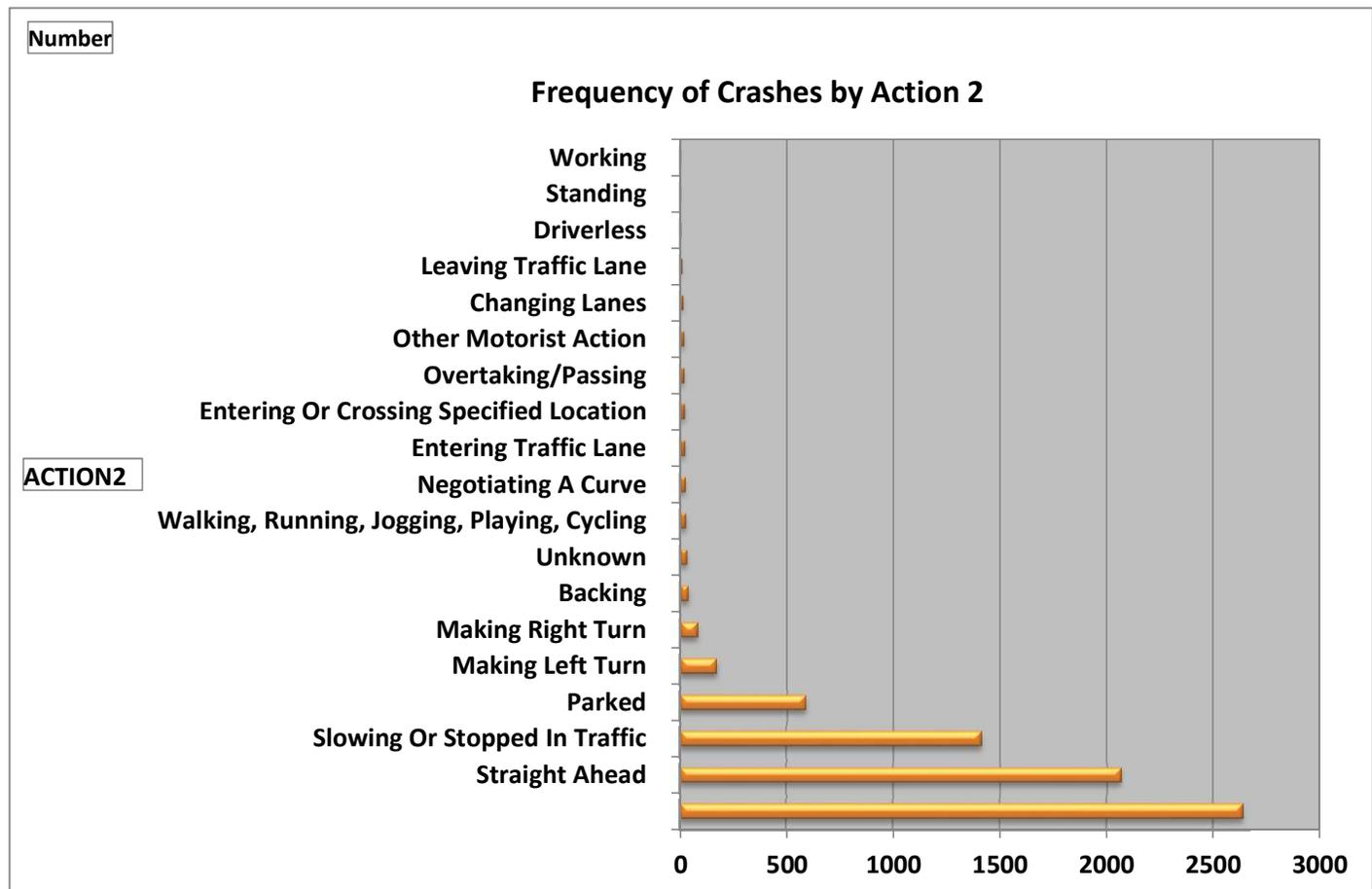
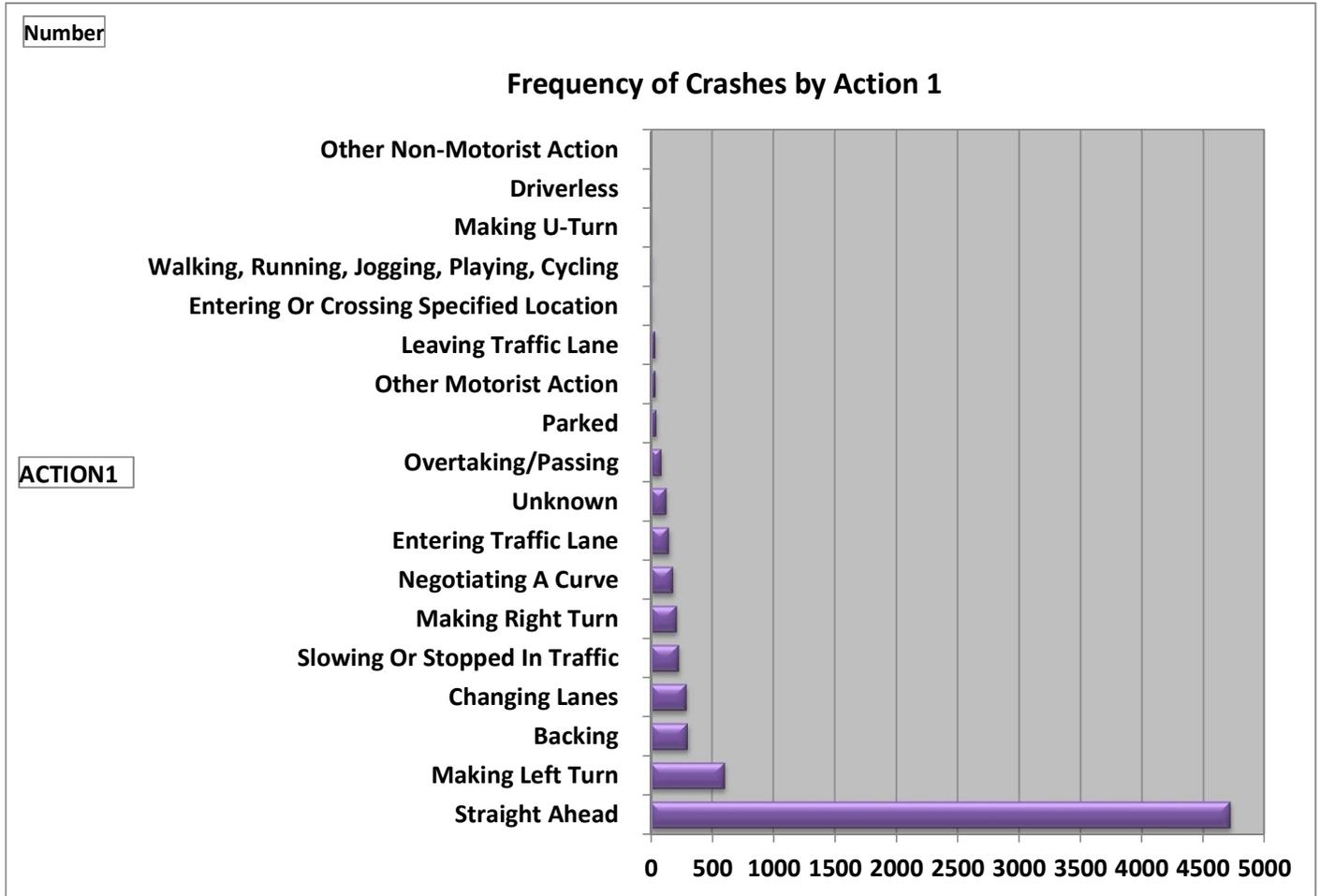


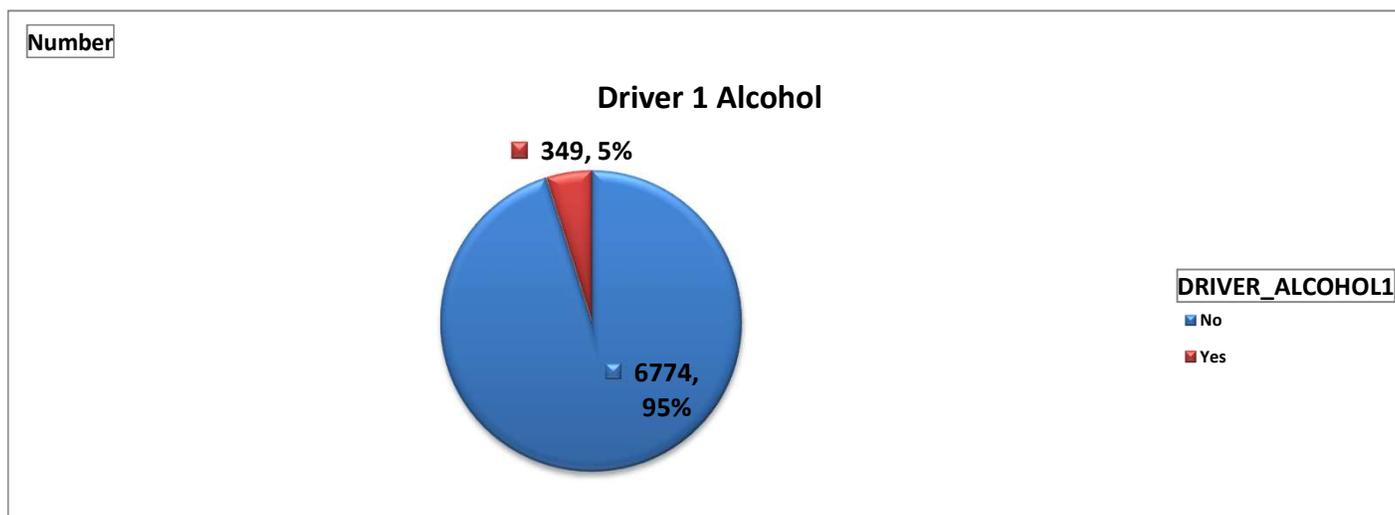
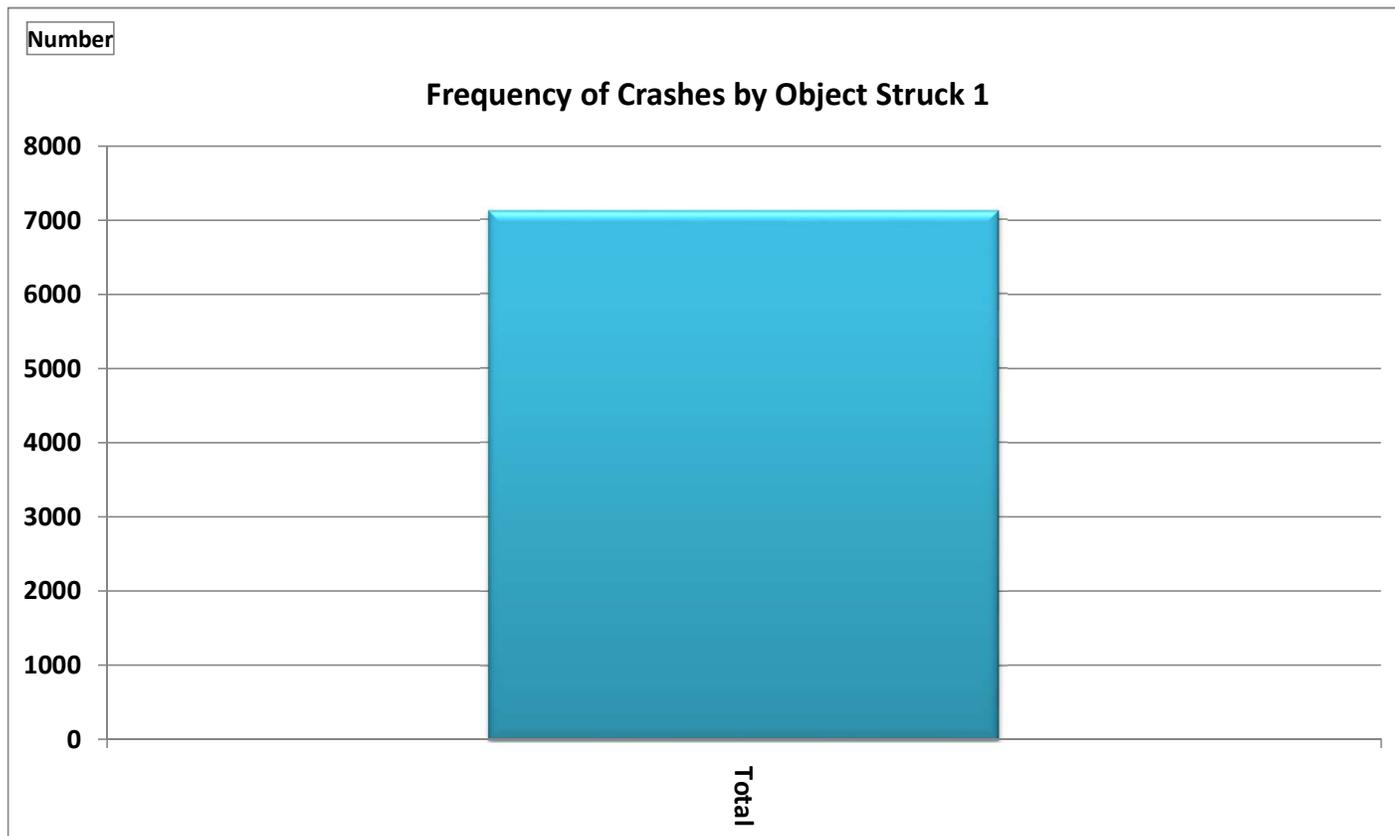
Frequency of Crashes by Contributing Factor 1



Frequency of Crashes by Contributing Factor 2

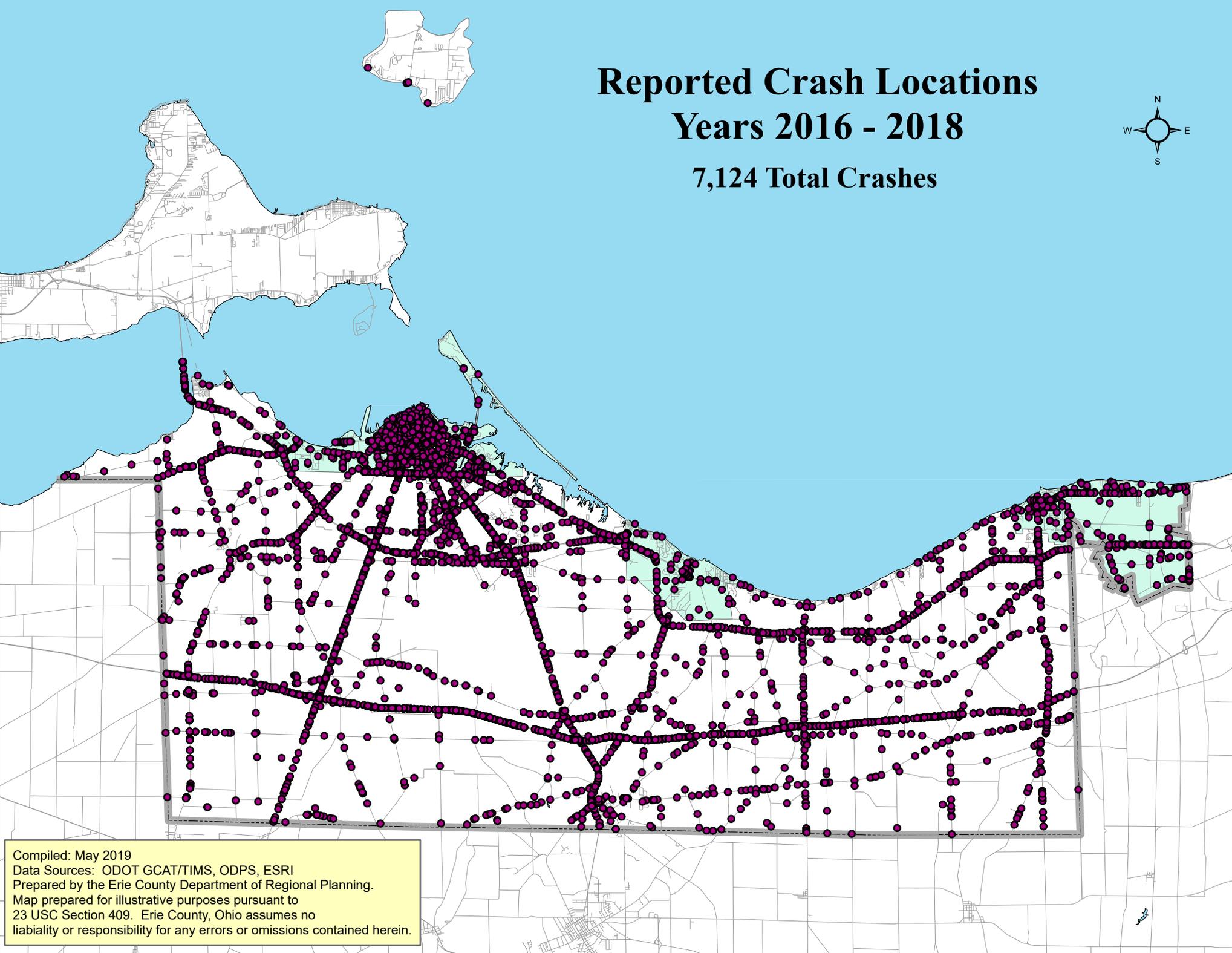






# Reported Crash Locations Years 2016 - 2018

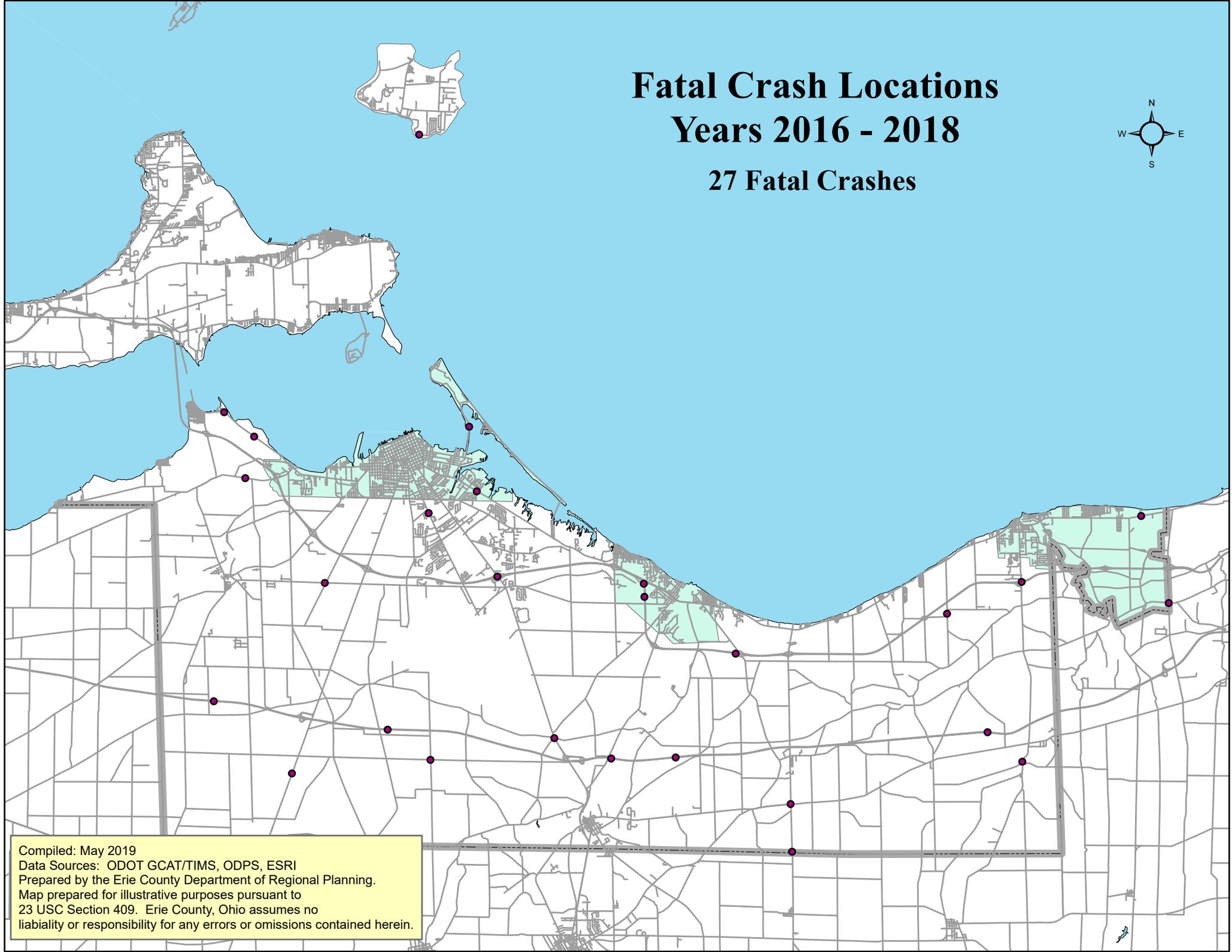
7,124 Total Crashes



Compiled: May 2019  
Data Sources: ODOT GCAT/TIMS, ODPS, ESRI  
Prepared by the Erie County Department of Regional Planning.  
Map prepared for illustrative purposes pursuant to  
23 USC Section 409. Erie County, Ohio assumes no  
liability or responsibility for any errors or omissions contained herein.

# Fatal Crash Locations Years 2016 - 2018

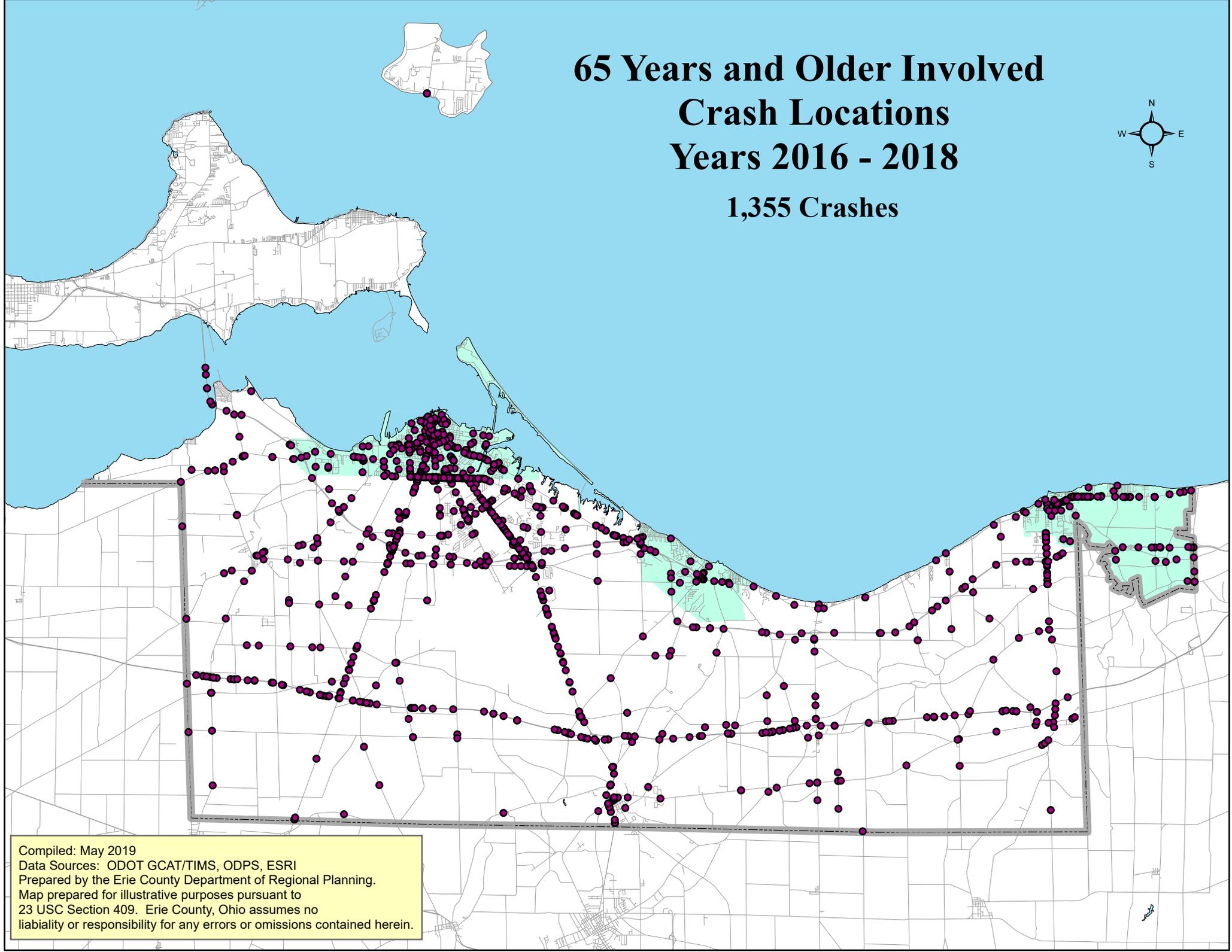
27 Fatal Crashes



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Data Sources: ODOT GCAT/TIMS, ODPS, ESRI  
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# 65 Years and Older Involved Crash Locations Years 2016 - 2018

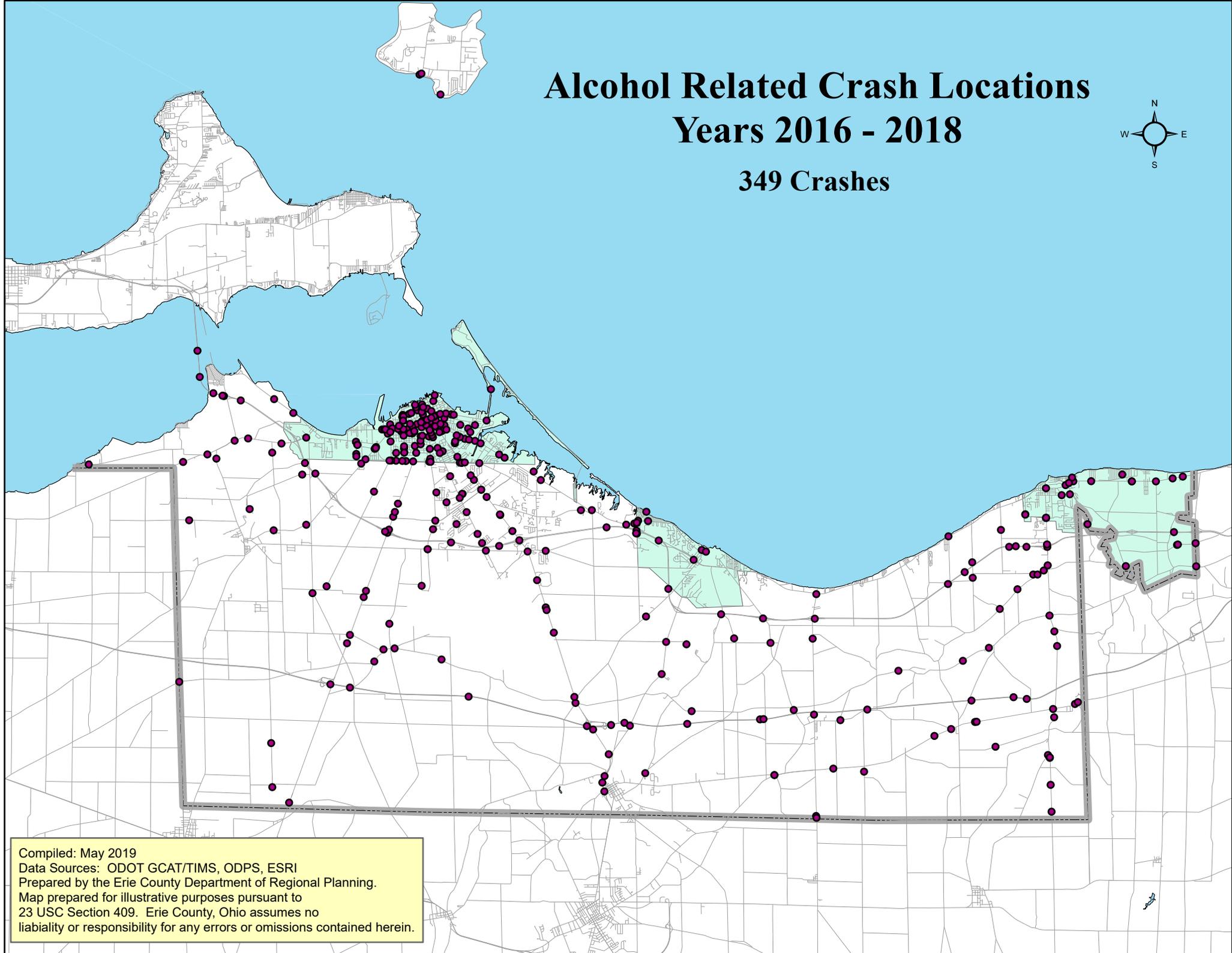
1,355 Crashes



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# Alcohol Related Crash Locations Years 2016 - 2018

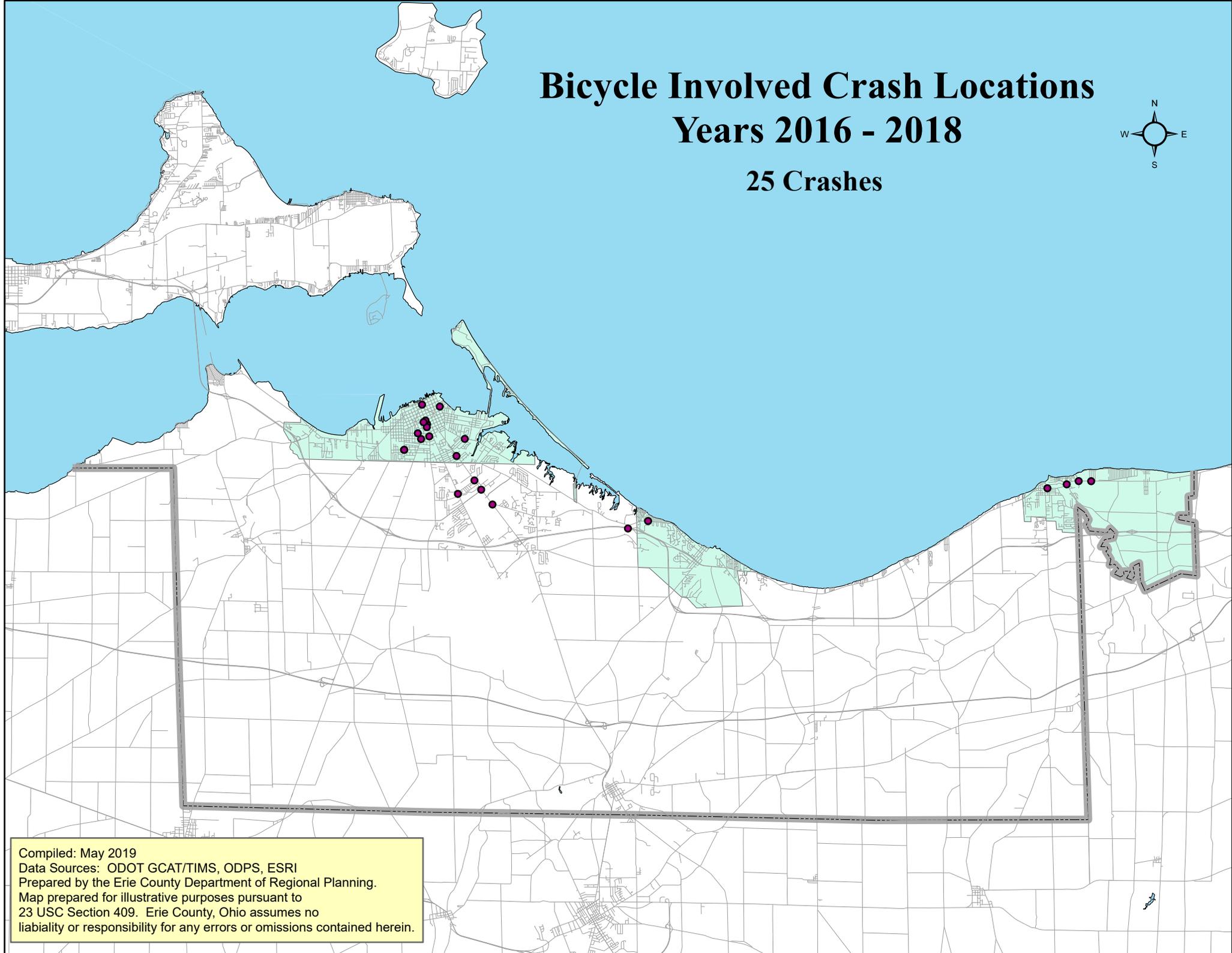
349 Crashes



Compiled: May 2019  
Data Sources: ODOT GCAT/TIMS, ODPS, ESRI  
Prepared by the Erie County Department of Regional Planning.  
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# Bicycle Involved Crash Locations Years 2016 - 2018

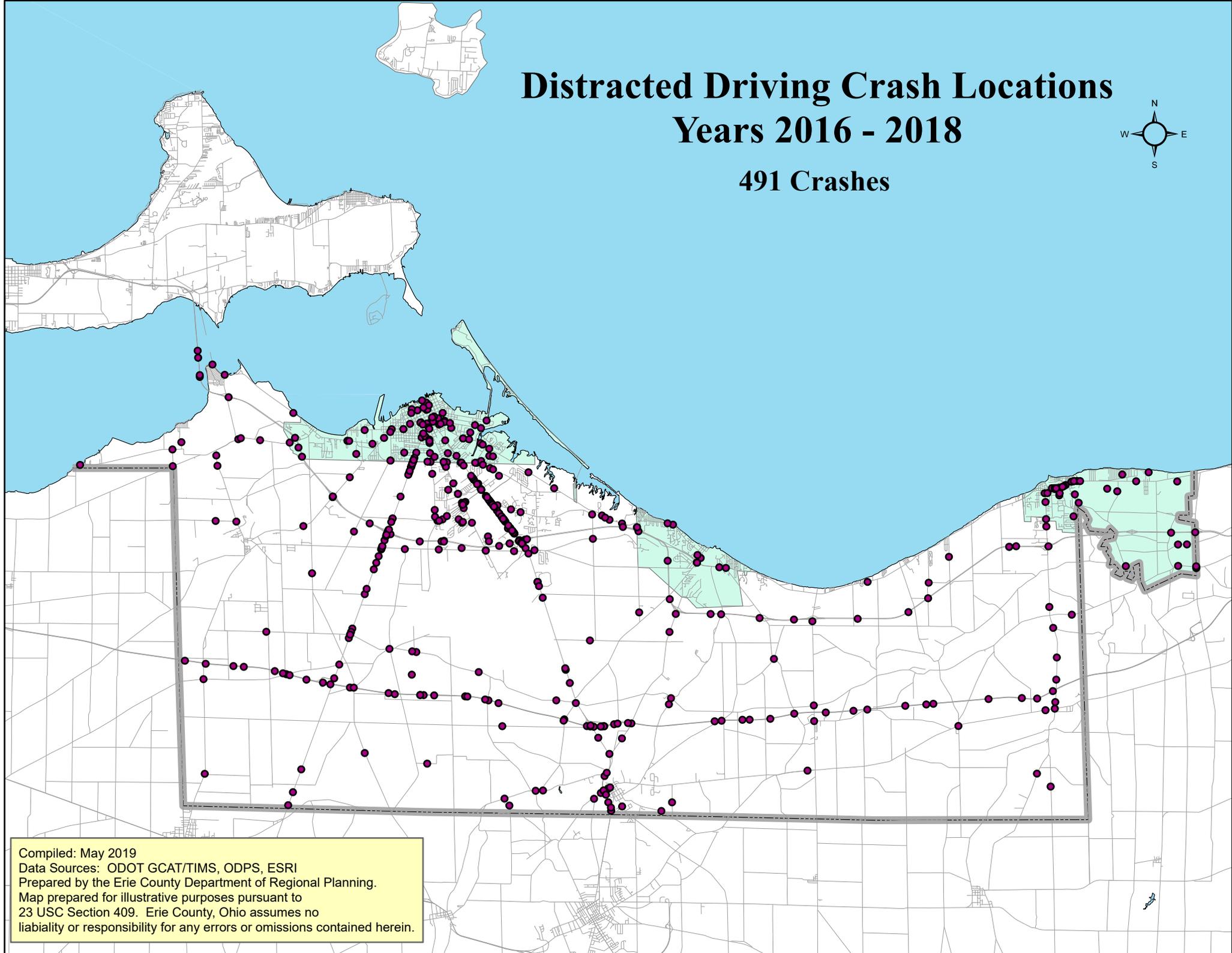
25 Crashes



Compiled: May 2019  
Data Sources: ODOT GCAT/TIMS, ODPS, ESRI  
Prepared by the Erie County Department of Regional Planning.  
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# Distracted Driving Crash Locations Years 2016 - 2018

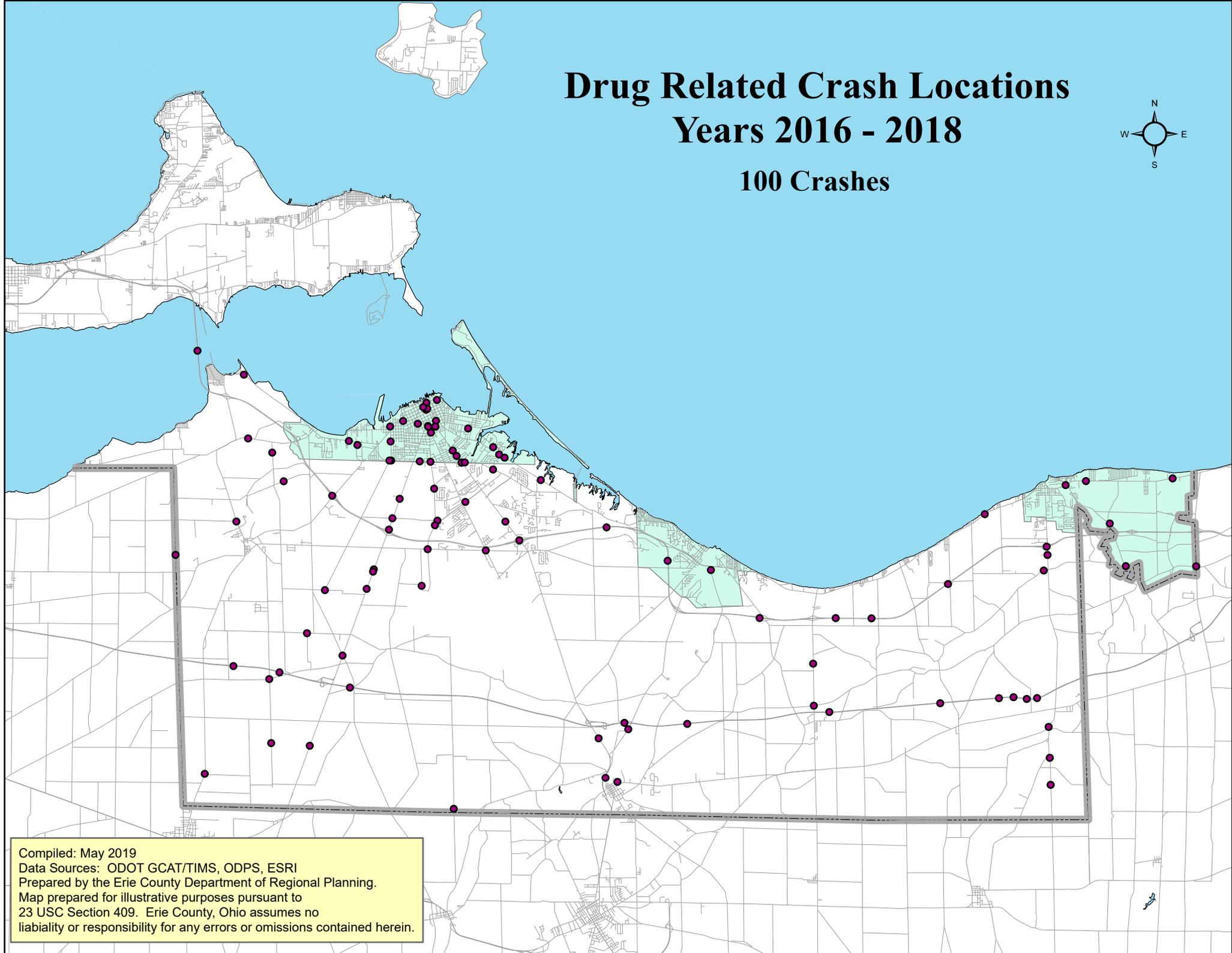
491 Crashes



Compiled: May 2019  
Data Sources: ODOT GCAT/TIMS, ODPS, ESRI  
Prepared by the Erie County Department of Regional Planning.  
Map prepared for illustrative purposes pursuant to  
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# Drug Related Crash Locations Years 2016 - 2018

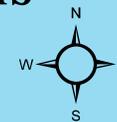
100 Crashes



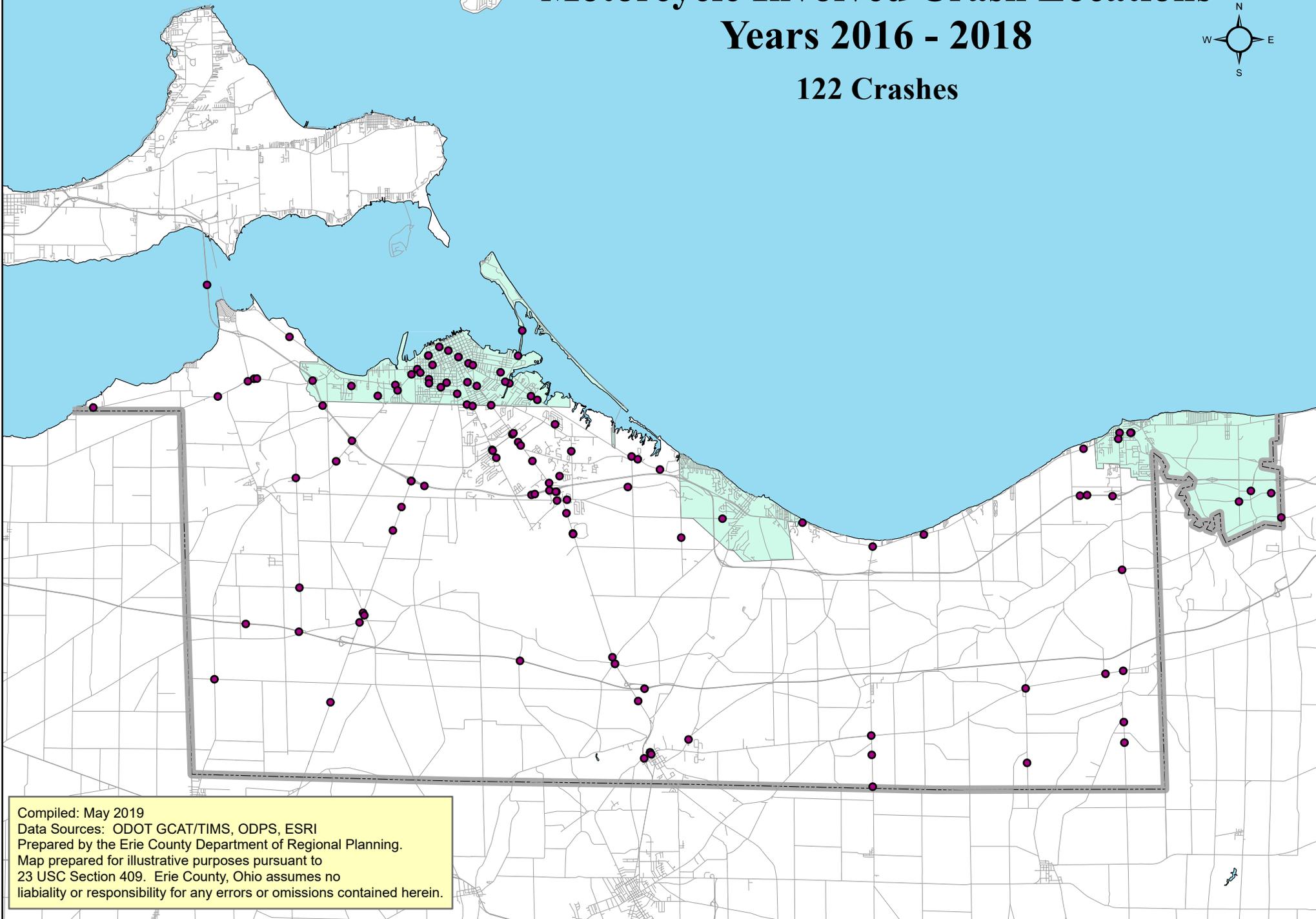
Compiled: May 2019  
Data Sources: ODOT GCAT/TIMS, ODPS, ESRI  
Prepared by the Erie County Department of Regional Planning.  
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# Motorcycle Involved Crash Locations Years 2016 - 2018



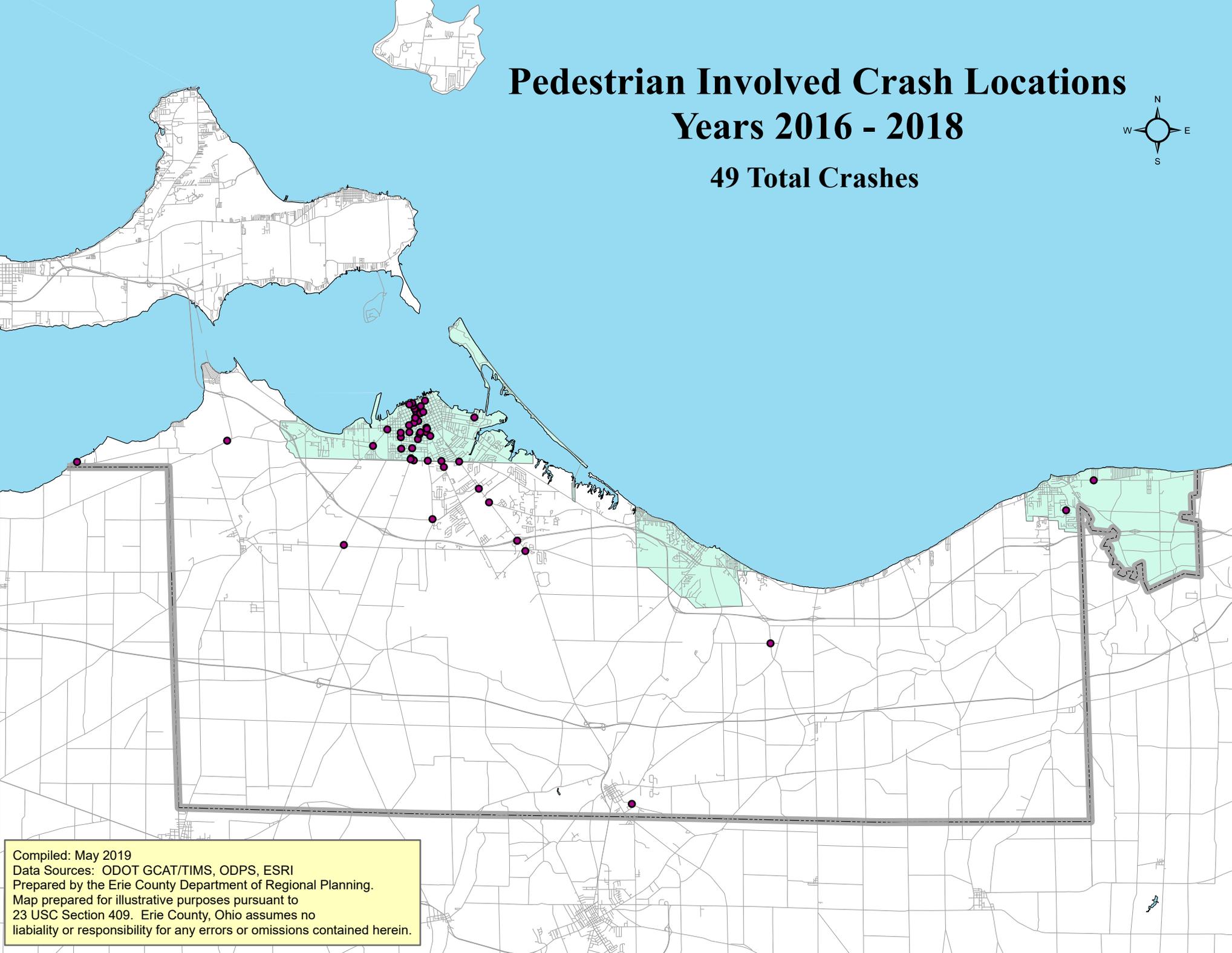
122 Crashes



Compiled: May 2019  
Data Sources: ODOT GCAT/TIMS, ODPS, ESRI  
Prepared by the Erie County Department of Regional Planning.  
Map prepared for illustrative purposes pursuant to  
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# Pedestrian Involved Crash Locations Years 2016 - 2018

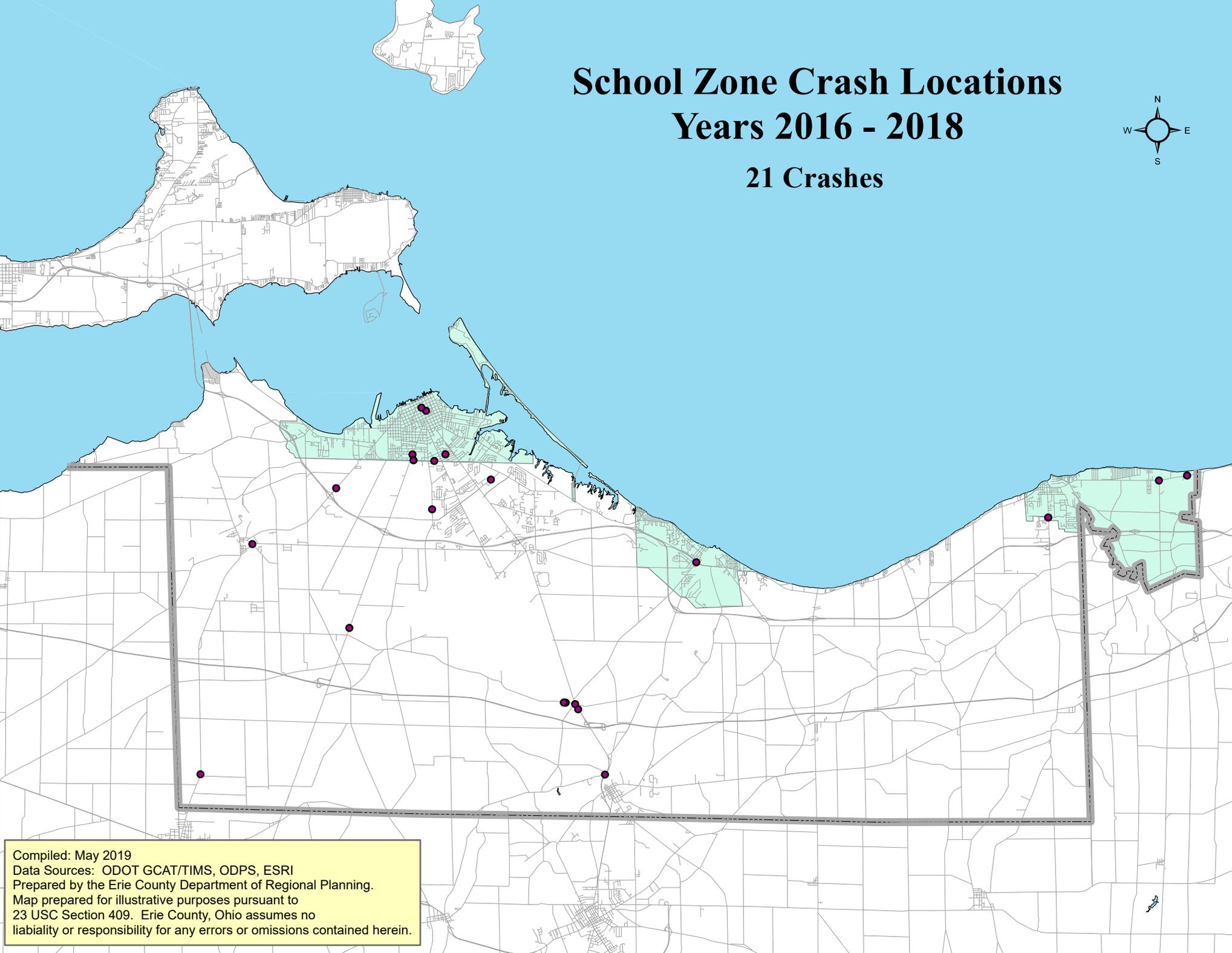
49 Total Crashes



Compiled: May 2019  
Data Sources: ODOT GCAT/TIMS, ODPS, ESRI  
Prepared by the Erie County Department of Regional Planning.  
Map prepared for illustrative purposes pursuant to  
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# School Zone Crash Locations Years 2016 - 2018

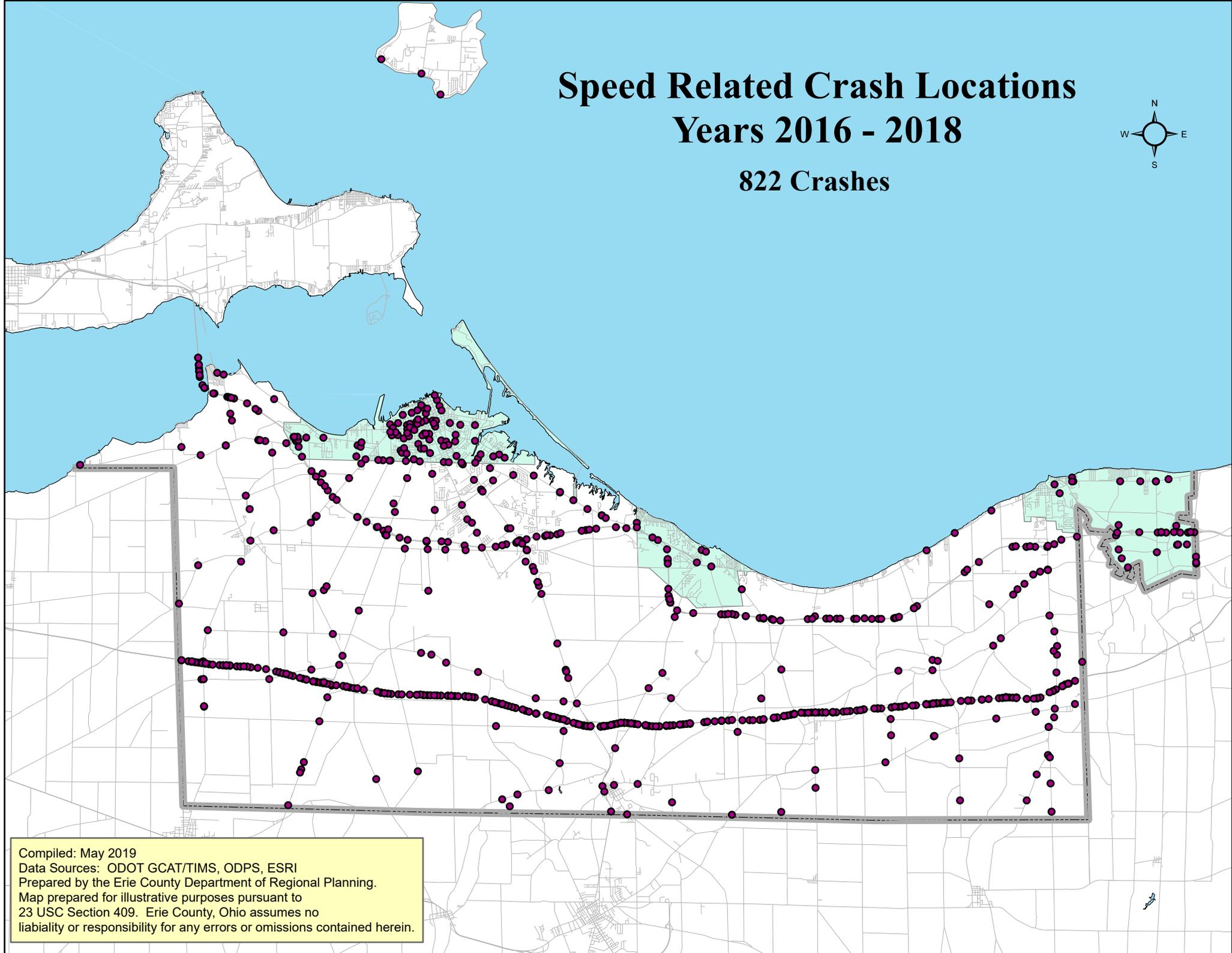
21 Crashes



Compiled: May 2019  
Data Sources: ODOT GCAT/TIMS, ODPS, ESRI  
Prepared by the Erie County Department of Regional Planning.  
Map prepared for illustrative purposes pursuant to  
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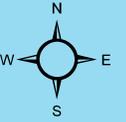
# Speed Related Crash Locations Years 2016 - 2018

822 Crashes

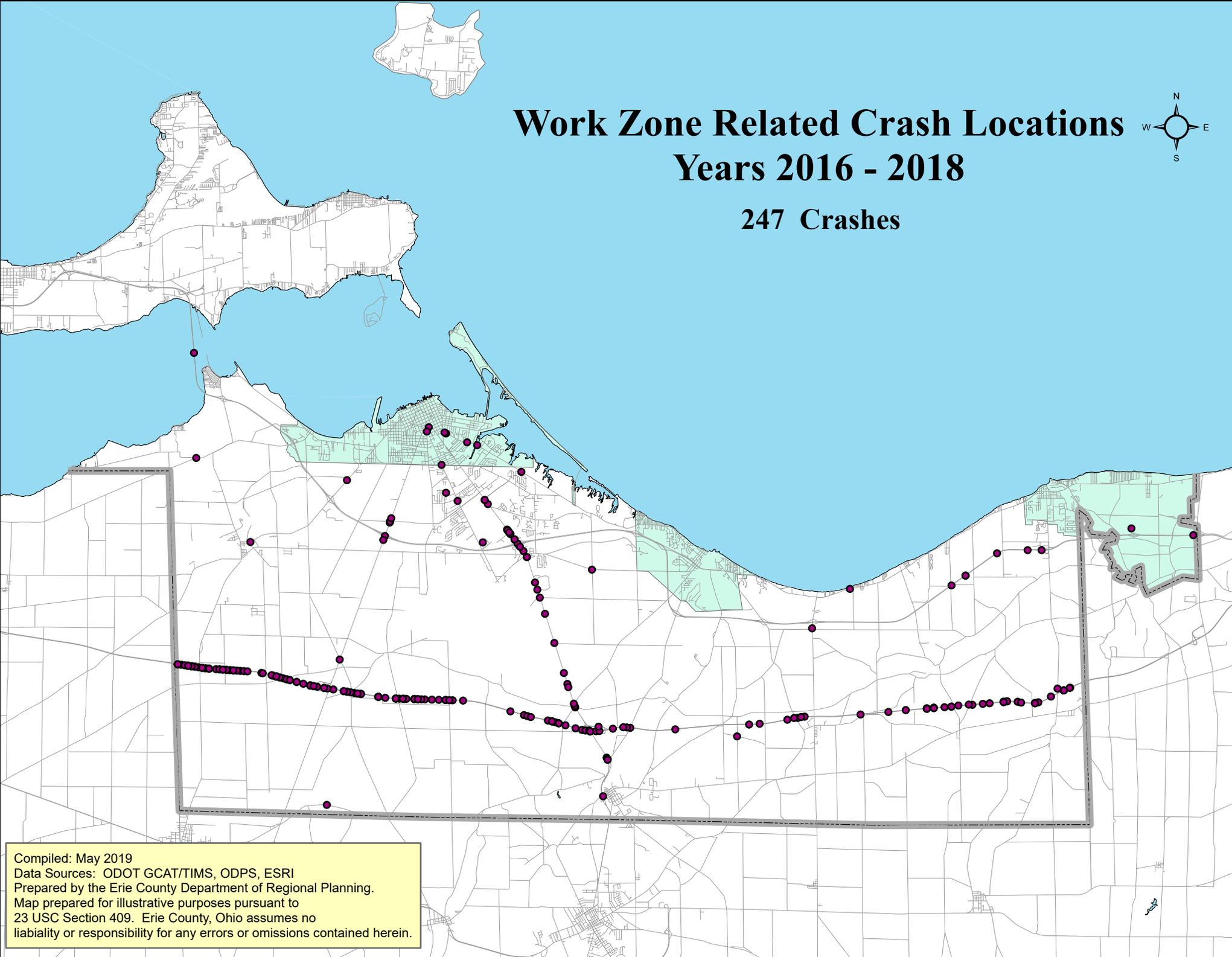


Compiled: May 2019  
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# Work Zone Related Crash Locations Years 2016 - 2018



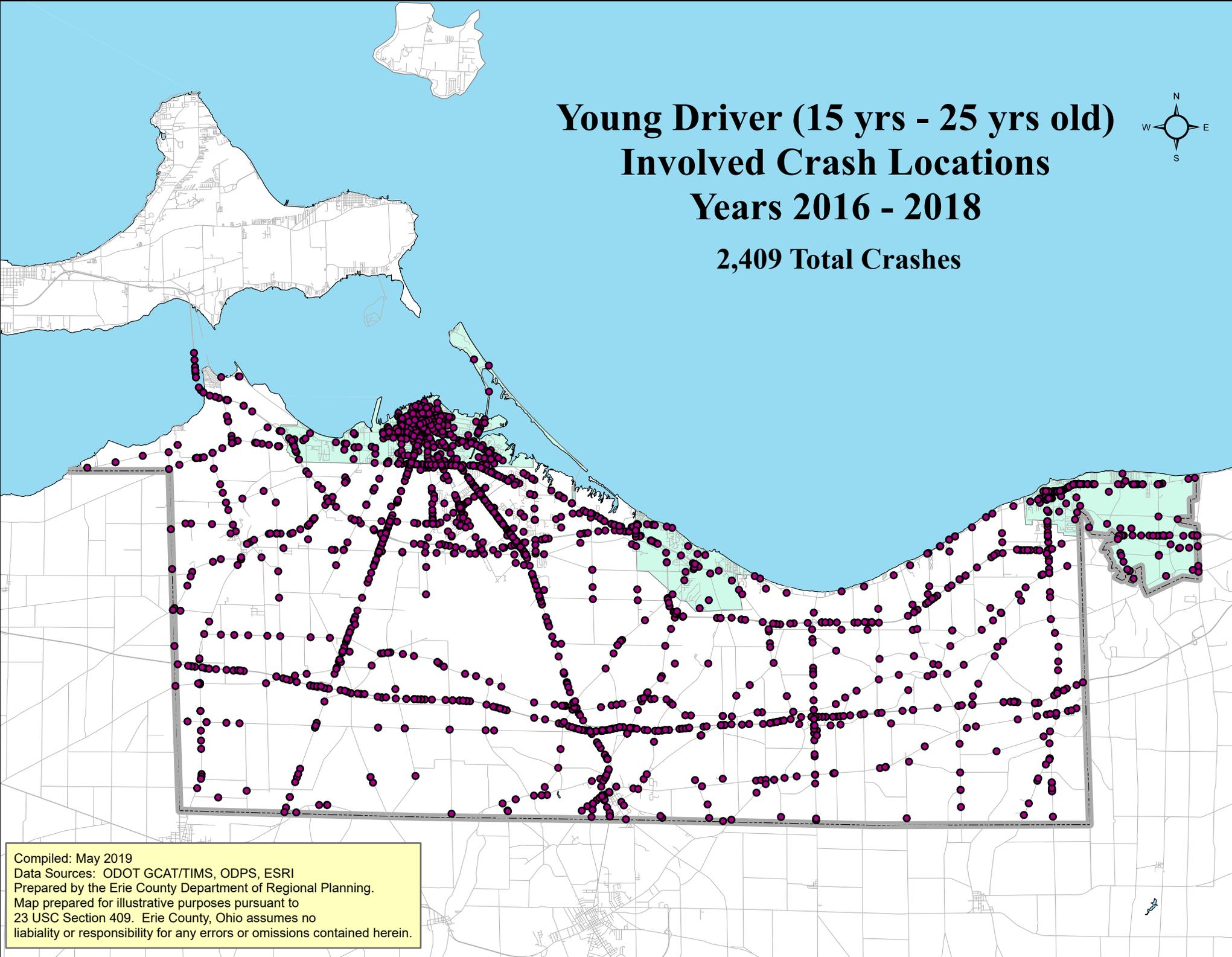
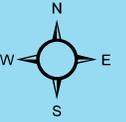
247 Crashes



Compiled: May 2019  
Data Sources: ODOT GCAT/TIMS, ODPS, ESRI  
Prepared by the Erie County Department of Regional Planning.  
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# Young Driver (15 yrs - 25 yrs old) Involved Crash Locations Years 2016 - 2018

2,409 Total Crashes



Compiled: May 2019  
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