

CRASH TRENDS & HIGH-CRASH INTERSECTIONS

Transportation Policy Committee

September 13, 2018



Mid-Ohio Regional
Planning Commission

CRASH DATA

TIMS TRANSPORTATION INFORMATION MAPPING SYSTEM

Project Search Create a Map Data Download Standard PDF Maps Map Viewers Data Glossary

Filter crash events by graphic

To filter crashes by a graphic, first activate the **Draw polygon** button then click map to start drawing. Double-click to complete polygon. Optionally, to buffer a drawn shape, input a distance value and select a unit of measure. Then click **Buffer** to complete.

that intersect graphic type:

buffer graphic:

REGIONAL OVERVIEW (2013-2017)

- 21% more crashes in 2017 compared to 2013.
- 485 crashes over the last 5 years resulted in at least one fatality.

CRASH TRENDS BY YEAR, 2013 TO 2017

YEAR	CRASH STATISTICS				OCCUPANT STATISTICS					SAFETY METRICS		
	Fatal Crashes	Injury Crashes	Property Damage Crashes	Total Crashes	Fatalities	Serious Injuries	Minor Injuries	No Injuries	Total People Involved	Injury Rate	EPDO	Fatalities and Serious Injuries per 100,000 population
2013	81	8,783	25,583	34,447	90	882	11,694	75,312	87,978	25.73%	2.97	66.20
2014	84	9,341	28,339	37,764	91	803	12,377	82,039	95,310	24.96%	2.78	60.13
2015	96	10,488	30,576	41,160	108	922	14,177	88,973	104,180	25.71%	2.86	68.17
2016	115	10,863	30,694	41,672	124	871	14,642	89,566	105,203	26.34%	2.86	66.37
2017	109	10,990	30,650	41,749	115	845	14,718	89,782	105,460	26.59%	2.84	61.73
5-Year Total	485	50,465	145,842	196,792	528	4,323	67,608	425,672	498,131			
Annual Average	97	10,093	29,168	39,358	106	865	13,522	85,134	99,626	25.9%	2.86	65
Pct. Change, 2013-2017	34.6%	25.1%	19.8%	21.2%	27.8%	-4.2%	25.9%	19.2%	19.9%	3.3%	-4.3%	-6.8%

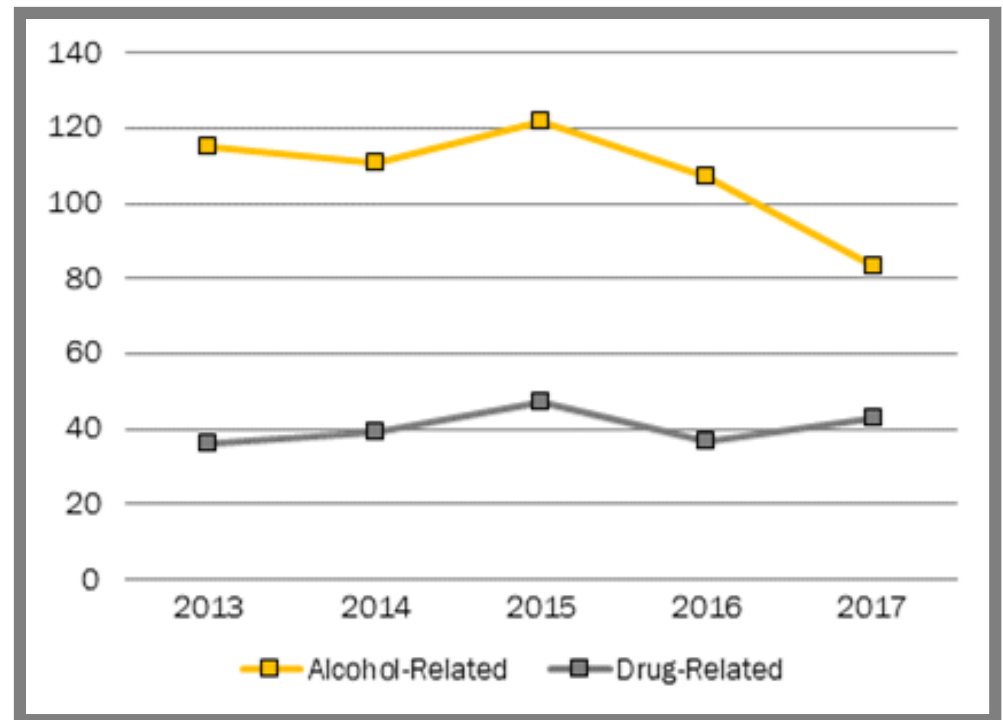
Notes

- Shaded orange cells indicate the year with the highest value for each respective column.
- The Equivalent Property Damage Only (EPDO) index is calculated by the following formula: $[(39.24 \times (\#FatalCrashes + \#SeriousInjuryCrashes)) + (6.55 \times \#MinorInjuryCrashes) + (4.44 \times \#PossibleInjuryCrashes) + \#NoInjuryCrashes] / \#TotalCrashes$.

RISKY BEHAVIORS

Most risky driving behaviors:

- ❖ Alcohol/Drugs
- ❖ Unbelted
- ❖ Speed



**Alcohol- and Drug-Related Fatalities
(2013-2017)**

CRASH TYPES

Most common crash types:

- ❖ Rear-end
- ❖ Sideswipe Passing
- ❖ Left turn
- ❖ Fixed object
- ❖ Angle

CRASH TYPE BY FREQUENCY AND SEVERITY

CRASH TYPE	TOTAL CRASHES	CRASH SEVERITY					FSI RATE
		Fatal	Serious Injury	Minor Injury	No Injury	Possible Injury	
Rear End	64,756	50	619	6,297	47,313	10,477	1.0%
Sideswipe - Passing	30,284	11	237	1,718	26,163	2,155	0.8%
Left Turn	21,960	31	490	3,387	14,785	3,267	2.4%
Fixed Object	20,421	147	645	2,861	14,671	2,097	3.9%
Angle	18,844	38	528	3,245	11,716	3,317	3.0%
Parked Vehicle	11,338	4	78	544	10,321	391	0.7%
Backing	6,631	1	12	99	6,312	207	0.2%
Right Turn	6,203	0	49	466	5,143	545	0.8%
Animal	4,057	0	9	115	3,799	134	0.2%
Head On	2,804	50	221	663	1,318	552	9.7%
Pedestrian	2,767	98	468	1,314	189	698	20.5%
Other Non-Collision	1,734	3	58	236	1,251	186	3.5%
Sideswipe - Meeting	1,615	18	49	169	1,225	154	4.1%
Pedalcycles	1,410	14	121	728	220	327	9.6%
Other Object	907	1	5	31	839	31	0.7%
Overturning	666	17	62	225	242	120	11.9%
Unknown	369	1	7	20	320	21	2.2%
Train	16	0	0	2	13	1	0.0%
Other Non-Vehicle	8	0	1	2	2	3	12.5%
Falling From Or In Vehicle	1	1	0	0	0	0	100.0%

Notes

- Shaded yellow cells indicate the crash type with the highest value for each respective column.
- FSI Rate refers to the percentage of crashes resulting in a fatality or serious injury

SERIOUS CRASH TYPES

Crash types resulting in severe injuries:

- ❖ Fixed object
- ❖ Angle
- ❖ Head-on
- ❖ Pedestrians
- ❖ Bicyclists

CRASH TYPE BY FREQUENCY AND SEVERITY

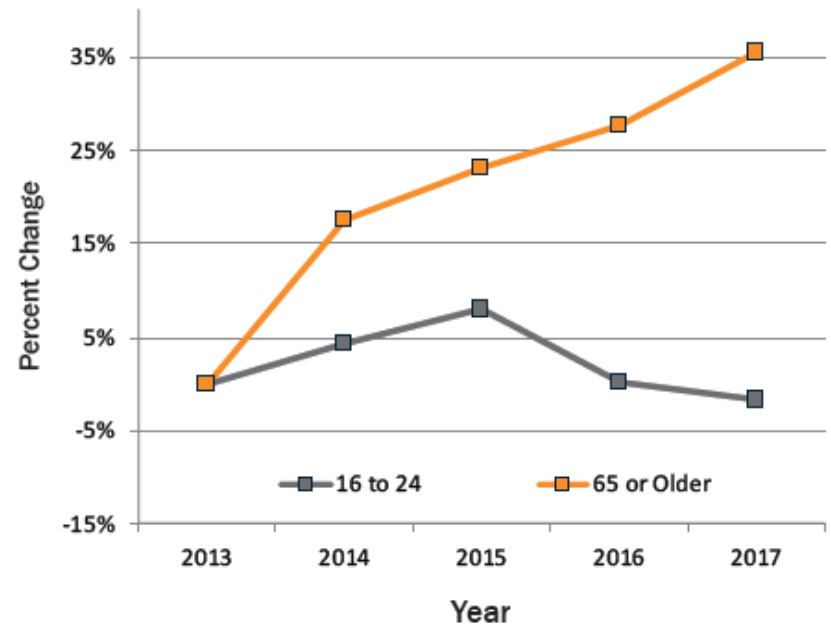
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YOUNG & OLDER DRIVERS

- 25 thru 29-year olds accounted for highest number of serious and fatal injuries.
- 35% increase in older adult drivers involved in crashes since 2013.



CRASH TREND BY AGE OF AT-FAULT DRIVER, SELECT AGE GROUPS

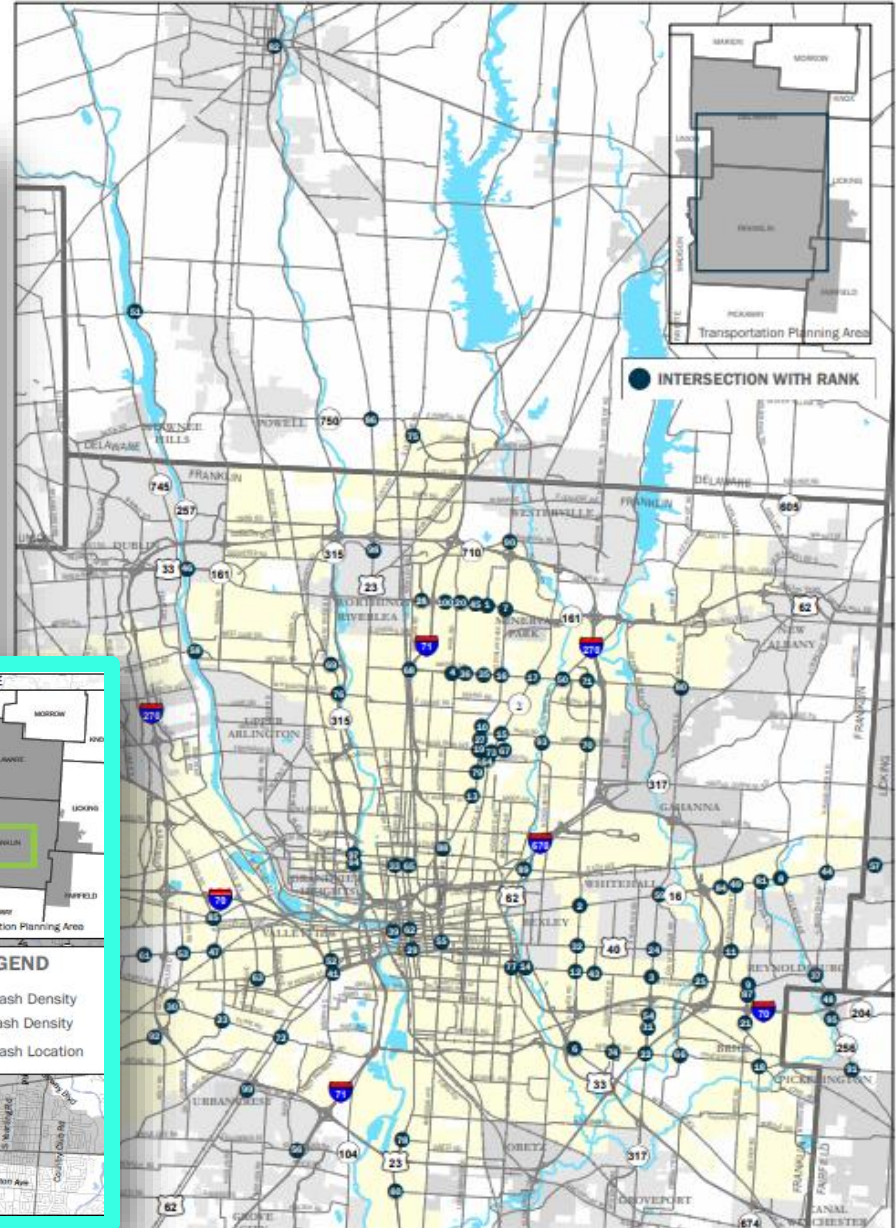
TOP HIGH CRASH LOCATIONS

HIGH-CRASH INTERSECTIONS
BY JURISDICTION
(2015-2017)

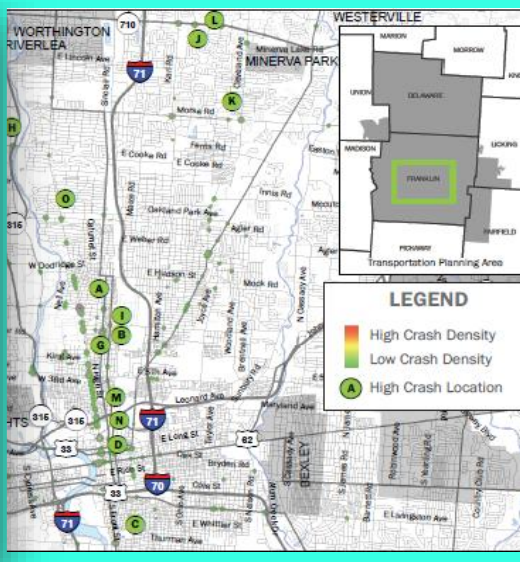
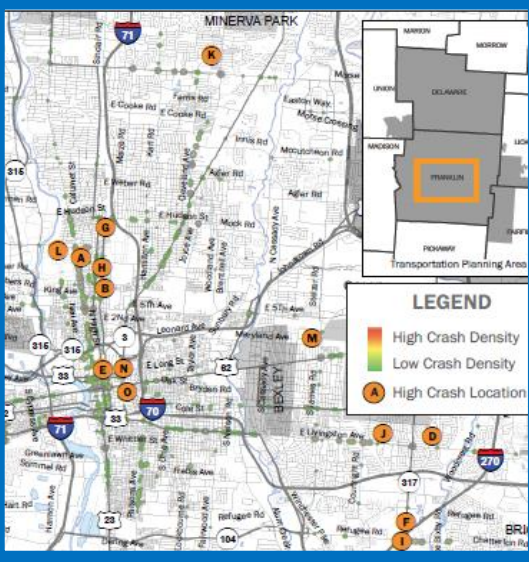


TOP 5 HIGH-CRASH INTERSECTIONS BY JURISDICTION (2015 TO 2017) - CITIES

JURISDICTION	RANK	LOCATION	TOTAL CRASHES (FREQ.)	CRASH SEVERITY					SEVERITY (EPDO)	ANNUAL CRASHES			TOP 100
				Fatal Injury	Serious Injury	Minor Injury	Possible Injury	PDO		2015	2016	2017	
BEXLEY	1	E Main St / US 40 @ Exclaire Ave	33	0	1	1	6	25	2.95	11	8	14	-
	2	E Main St / US 40 @ S Drexel Ave / US 40	28	0	1	1	6	20	3.30	8	5	15	-
	3	E Main St / US 40 @ Pleasant Ridge Ave	26	0	0	0	4	22	1.53	8	9	9	-
	4	E Main St @ College Ave	23	0	1	3	3	16	3.84	8	6	9	-
CANAL WINCHESTER	5	E Main St @ Sheridan Ave	23	0	0	2	3	18	1.93	9	8	6	-
	1	Gender Rd / SR 674 @ Winchester Blvd	55	0	0	3	7	45	1.74	14	21	20	-
	2	Gender Rd / SR 674 @ W Waterloo St	38	0	0	2	3	33	1.56	10	14	14	-
	3	Waterloo Rd @ Winchester Rd	22	0	0	0	7	15	2.09	3	4	15	-
	4	Gender Rd / SR 674 @ Groveport Pike	20	0	0	1	9	10	2.83	5	7	8	-
COLUMBUS	5	Gender Rd / SR 674 @ Canal St	16	0	0	4	4	8	3.25	1	6	9	-
	1	Cleveland Ave @ Morse Rd	265	1	1	36	33	194	2.47	90	88	87	x
	2	Dublin Granville Rd / SR 161 @ Cleveland Ave	213	0	3	32	27	151	2.81	79	76	58	x
	3	Brice Rd @ Scarborough Blvd / Tussing Rd	193	1	1	20	21	150	2.35	80	52	61	x
	4	E Livingston Ave @ Hamilton Rd / SR 317	188	1	3	24	25	135	2.98	59	70	59	x
DELAWARE CITY	5	Morse Rd @ Westerville Rd / SR 3	176	0	4	13	23	136	2.73	52	73	51	x
	1	E William St / US 36 @ Sandusky St	77	0	2	1	9	65	2.47	34	16	27	x
	2	Columbus Pike / US 23 @ Cottswold Dr	36	0	1	1	7	27	2.89	9	8	19	-
	3	E William St / US 36 @ N Henry St	34	0	1	4	2	27	2.98	14	10	10	-
	4	Sunbury Rd / US 36 @ Kilbourne Rd / SR 521	33	1	1	1	12	18	4.74	11	11	11	-
DELAWARE CITY	5	W Central Ave / SR 37 @ N Sandusky St	32	0	1	1	7	23	3.12	7	17	8	-
	1	E Bridge St @ Riverside Dr / US 33	173	0	0	10	15	148	1.62	10	24	139	x



● INTERSECTION WITH RANK



Regional Safety Plan





Transportation Safety

ADMINISTRATIVE DATA SAFETY **TRANSPORTATION**

Every year around 100 individuals lose their lives in crashes on Central Ohio's roadways, and another 500 people suffer serious life-changing injuries. In partnership with many of our state and local partners we are actively working to address the safety concerns on our roadways to save lives and improve the overall quality of life for all Central Ohio residents and visitors.

☆ ADD TO MY FAVES

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<http://www.morpc.org/safety>



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