

MnDOT were referenced for comparison purposes. Crash rates are per million entering vehicles (MEV) for intersections and per million vehicle miles (MVM) for segments.

It should be noted that a higher than the statewide average crash rate does not necessarily indicate a crash problem. Therefore, the critical crash rate was also calculated to determine the statistical significance of the crashes at locations that experienced above average crash rates. If the calculated crash rate is below the critical crash rate, crashes that occurred are likely due to the random nature of crashes and not necessarily a geometric design or traffic control issue. A crash rate that is higher than the critical crash rate is an indication of a geometric design or traffic control issue and warrants further evaluation. The critical index is the actual crash rate divided by the critical crash rate. A critical index greater than 1.0 indicates that the actual crash rate is greater than the critical crash rate.

An intersection and segment crash summary that includes the total number of crashes, total number of severe (fatal and A-severity) crashes, the actual crash rate, the statewide average crash rate, the critical crash rate, and the critical index is shown in Table 1 and Table 2, respectively. Maps illustrating the locations of crashes (2014-2018) can be found in Appendix A.

Table 1. Intersection Crash Summary (January 1, 2014-December 31, 2018)

Intersection	Total Crashes	Severe Crashes (K + A)	Actual Crash Rate	Statewide Average	Critical Rate	Critical Index
TH 8 & Goodview Cir	4	0	0.10	0.25	0.46	0.21
TH 8 & Greenway Ave	32	1	0.72	0.45	0.72	1.00
TH 8 & Heath Ave	4	0	0.10	0.25	0.47	0.22
TH 8 & Pioneer Rd	33	0	0.76	0.45	0.73	1.05
TH 8 & 270th St	2	0	0.08	0.25	0.52	0.14
TH 8 & 273rd St	0	0	0.00	0.25	0.52	0.00
TH 8 & Viking Blvd	24	0	0.77	0.45	0.78	0.99
TH 8 & Deer Garden Ln	12	1	0.37	0.25	0.49	0.75
TH 8 & Karmel Ave	6	0	0.18	0.18	0.39	0.46

The TH 8/Greenway Ave and TH 8/Pioneer Road intersections experienced a crash rate greater than or equal to the critical crash rate, indicating a strong likelihood of a geometric design, access, or traffic control issue.