



ACCIDENT AND SEVERITY RATES FOR AN INTERSECTION

Intersection:	CSAH 78 @ CR 16		
Study Start Date:	01/01/2020		
Study End Date:	03/30/2024		
Length of study in years:	4.25	Days = 1550.236	Weighted
Intersection ADT:	28967	Total Accidents =	9
Number of Fatal Accidents:	0	Total Fatal Accidents =	0
Number of "A" P.I. Accidents:	0	Total "A" Injury Accidents =	0
Number of "B" P.I. Accidents:	0	Total "B" Injury Accidents =	0
Number of "C" P.I. Accidents:	6	Total "C" Injury Accidents =	6
Number of Property Damage Accidents:	3	Total Property Damage Accidents =	3
		Sum of weighted accidents =	15
Accident Rate (AR) =	0.20		
Severity Rate (SR) =	0.33		

Intersection Safety Screening

Intersection: CSAH 78 @ CR 16

Statewide Averages based on 2018-2022 crashes

Crashes by Crash Severity		Intersection Characteristics	
Fatal (K)	0	Entering Volume	28,967
Serious Injury (A)	0	Environment	Urban
Minor Injury (B)	0	Lighting	Lit
Possible Injury (C)	6	Traffic Control	Signal
Property Damage (PDO)	3		
Total Crashes	9		

Annual crash cost = \$165,000

Statewide comparison = Signal, Low Volume (<=20K)

Total Crash Rate		Fatal & Serious Injury Crash Rate	
Observed	0.170	Observed	0.000
Statewide Average	0.548	Statewide Average	1.024
Critical Rate	0.820	Critical Rate	3.750
Critical Index	0.21	Critical Index	0.00

The observed crash rate is the number of crashes per million entering vehicles (MEV). The critical rate is a statistical comparison based on similar intersections statewide. An observed crash rate greater than the critical rate indicates that the intersection operates outside the expected, normal range. The critical index reports the magnitude of this difference (i.e. observed crash rate ÷ critical crash rate).

The observed total crash rate for this period is 0.17 per MEV; this is 79% below the critical rate. Based on similar statewide intersections, an additional 35 crashes over the five years would indicate this intersection operates outside the normal range.

The observed fatal and serious injury crash rate for this period is 0.00 per 100 MEV; this is 100% below the critical rate. The intersection operates within the normal range.