



### ACCIDENT AND SEVERITY RATES FOR AN INTERSECTION

Intersection:	CSAH 78 @ CSAH 11/GATEWAY DR		
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:	50217	Total Accidents =	41
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:	5	Total "B" Injury Accidents =	15
Number of "C" P.I. Accidents:	9	Total "C" Injury Accidents =	18
Number of Property Damage Accidents:	27	Total Property Damage Accidents =	27
		Sum of weighted accidents =	60
Accident Rate (AR) =	0.53		
Severity Rate (SR) =	0.77		

# Intersection Safety Screening

Intersection: CSAH 78 @ CSAH 11/GATEWAY DR

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*Statewide Averages based on 2018-2022 crashes*

Crashes by Crash Severity	
Fatal (K)	0
Serious Injury (A)	0
Minor Injury (B)	5
Possible Injury (C)	9
Property Damage (PDO)	27
Total Crashes	41

Intersection Characteristics	
Entering Volume	50,217
Environment	Urban
Lighting	Lit
Traffic Control	Signal

*Annual crash cost* = \$565,000

*Statewide comparison* = Signal, High Volume (>20K)

Total Crash Rate	
Observed	0.447
Statewide Average	0.608
Critical Rate	0.820
<b>Critical Index</b>	<b>0.55</b>

Fatal & Serious Injury Crash Rate	
Observed	0.000
Statewide Average	0.963
Critical Rate	2.820
<b>Critical Index</b>	<b>0.00</b>

*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 0.45 per MEV; this is 45% 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.*