

Intersection Safety Screening

Intersection: CSAH 23 @ Griggs Ave

Statewide Averages based on 2016-2020 crashes

Crashes by Crash Severity	
Fatal (K)	0
Serious Injury (A)	1
Minor Injury (B)	0
Possible Injury (C)	1
Property Damage (PDO)	9
Total Crashes	11

Intersection Characteristics	
Entering Volume	15,013
Environment	Urban
Lighting	Lit
Traffic Control	Signal

Annual crash cost = \$197,400

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

Total Crash Rate	
Observed	0.401
Statewide Average	0.508
Critical Rate	0.880
Critical Index	0.46

Fatal & Serious Injury Crash Rate	
Observed	3.646
Statewide Average	0.690
Critical Rate	4.550
Critical Index	0.80

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 0.40 per MEV; this is 54% below the critical rate. Based on similar statewide intersections, an additional 14 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 3.65 per 100 MEV; this is 20% below the critical rate. The intersection operates within the normal range.

ACCIDENT AND SEVERITY RATES FOR AN INTERSECTION

Intersection:	CSAH 23 @ Griggs Ave	
Study Start Date:	01/01/2019	
Study End Date:	06/30/2023	
Length of study in years:	4.50	Days = 1641.486 Weighted
Intersection ADT:	15013	Total Accidents = 11
Number of Fatal Accidents:	0	Total Fatal Accidents = 0 0
Number of "A" P.I. Accidents:	1	Total "A" Injury Accidents = 1 4
Number of "B" P.I. Accidents:	0	Total "B" Injury Accidents = 0 0
Number of "C" P.I. Accidents:	1	Total "C" Injury Accidents = 1 2
Number of Property Damage Accidents:	9	Total Property Damage Accidents = 9 9
		Sum of weighted accidents = 15
Accident Rate (AR) =	0.45	
Severity Rate (SR) =	0.61	