



<p>← DATE, TIME, LIGHT, WEATHER</p>			<p>☒ OVERTURN</p> <p>🔥 FIRE OR EXPLOSION</p> <p>→ MOVING VEHICLE</p> <p>← REAR END</p> <p>↔ BACKING VEHICLE</p> <p>☐ COLLISION WITH FIXED OBJECT</p> <p>↔ SIDE SWIPE SAME DIRECTION</p> <p>↔ SIDE SWIPE OPPOSITE DIRECTION</p>	<p>🚗 PARKED VEHICLE</p> <p>🏍️ MOTORCYCLE</p> <p>🦌 DEER</p> <p>🚶 PEDESTRIAN</p> <p>🚲 BICYCLE</p> <p>☐ FIXED OBJECT</p> <p>↔ RIGHT ANGLE</p>	<p>🌀 VEHICLE OUT OF CONTROL</p> <p>↔ LEFT TURN INTO ONCOMING TRAFFIC</p>	<p>ADT: 10218</p> <p>ACCIDENT RATE: 0.20 CR INDEX: 0.61</p> <p>SEVERITY RATE: 0.73 FAR INDEX: 1.81</p>
<p>LIGHT</p> <p>L = LIGHT</p> <p>DN = DAWN</p> <p>DU = DUSK</p> <p>D = DARK</p> <p>X = UNKNOWN</p>	<p>WEATHER</p> <p>C = CLEAR</p> <p>CL = CLOUDY</p> <p>R = RAIN</p> <p>S = SNOW/SLEET</p> <p>X = OTHER/UNKNOWN</p>	<p>SEVERITY CODE</p> <p>Ⓝ PROPERTY DAMAGE</p> <p>Ⓒ POSSIBLE INJURY</p> <p>Ⓑ MINOR INJURY</p> <p>Ⓐ SERIOUS INJURY</p> <p>Ⓚ FATALITY</p>	<p> ANOKA COUNTY HIGHWAY DEPT.</p>		<p>COLLISION DIAGRAM</p> <p>CSAH 7 @ CR 158 JAN 2019 TO JUNE 2024</p> <p>Sheet <u> 1 </u> of <u> 1 </u> Sheets</p>	

ACCIDENT AND SEVERITY RATES FOR AN INTERSECTION

Intersection:	CSAH 7 @ CR 158	
Study Start Date:	01/01/2019	
Study End Date:	06/30/2024	
Length of study in years:	5.50	Days = 2006.486 Weighted
Intersection ADT:	10218	Total Accidents = 4
Number of Fatal Accidents:	2	Total Fatal Accidents = 2 10
Number of "A" P.I. Accidents:	0	Total "A" Injury Accidents = 0 0
Number of "B" P.I. Accidents:	1	Total "B" Injury Accidents = 1 3
Number of "C" P.I. Accidents:	1	Total "C" Injury Accidents = 1 2
Number of Property Damage Accidents:	0	Total Property Damage Accidents = 0 0
		Sum of weighted accidents = 15
Accident Rate (AR) =	0.20	
Severity Rate (SR) =	0.73	

Intersection Safety Screening

Intersection: CSAH 7 @ CR 158

Statewide Averages based on 2018-2022 crashes

Crashes by Crash Severity	
Fatal (K)	2
Serious Injury (A)	0
Minor Injury (B)	1
Possible Injury (C)	1
Property Damage (PDO)	0
Total Crashes	4

Intersection Characteristics	
Entering Volume	10,218
Environment	Rural
Lighting	Lit
Traffic Control	Thru-Stop

Annual crash cost = \$716,000

Statewide comparison = Rural, Thru/STOP

Total Crash Rate	
Observed	0.214
Statewide Average	0.116
Critical Rate	0.350
Critical Index	0.61

Fatal & Serious Injury Crash Rate	
Observed	10.719
Statewide Average	0.726
Critical Rate	5.930
Critical Index	1.81

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 0.21 per MEV; this is 39% below the critical rate. Based on similar statewide intersections, an additional 3 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 10.72 per 100 MEV; this is 1.8 times the critical rate. This site may be a sustained severe crash location.