



← DATE, TIME, LIGHT, WEATHER

- ☒ OVERTURN
- 🔥 FIRE OR EXPLOSION
- MOVING VEHICLE
- ↔ REAR END
- ↔↔↔ BACKING VEHICLE
- ☐→ COLLISION WITH FIXED OBJECT
- ↔↔ SIDE SWIPE SAME DIRECTION
- ↔↔ SIDE SWIPE OPPOSITE DIRECTION

- 🚗 PARKED VEHICLE
- 🏍️ MOTORCYCLE
- 🦌 DEER
- 🚶 PEDESTRIAN
- 🚲 BICYCLE
- ☐ FIXED OBJECT
- ↔ RIGHT ANGLE
- 🌀 VEHICLE OUT OF CONTROL
- ↔ LEFT TURN INTO ONCOMING TRAFFIC



**ANOKA COUNTY
HIGHWAY DEPT.**

ADT: 25488
ACCIDENT RATE: 0.21 CR INDEX: 0.30
SEVERITY RATE: 0.34 FAR INDEX: 0.00

**COLLISION
DIAGRAM**

CSAH 78 (HANSON BLVD) @
CSAH 18 (CROSSTOWN BLVD)
JAN 2018 TO SEPT 2023

Sheet 1 of 1 Sheets

LIGHT

L = LIGHT
DN = DAWN
DU = DUSK
D = DARK
X = UNKNOWN

WEATHER

C = CLEAR
CL = CLOUDY
R = RAIN
S = SNOW/SLEET
X = OTHER/UNKNOWN

SEVERITY CODE

(N) PROPERTY DAMAGE
(C) POSSIBLE INJURY
(B) MINOR INJURY
(A) SERIOUS INJURY
(K) FATALITY

Intersection Safety Screening

Intersection: CSAH 78 @ CSAH 18

Statewide Averages based on 2016-2020 crashes

Crashes by Crash Severity	
Fatal (K)	0
Serious Injury (A)	0
Minor Injury (B)	2
Possible Injury (C)	3
Property Damage (PDO)	6
Total Crashes	11

Intersection Characteristics	
Entering Volume	25,488
Environment	Urban
Lighting	Lit
Traffic Control	Signal

Annual crash cost = \$179,600

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

Total Crash Rate	
Observed	0.236
Statewide Average	0.508
Critical Rate	0.790
Critical Index	0.30

Fatal & Serious Injury Crash Rate	
Observed	0.000
Statewide Average	0.690
Critical Rate	3.320
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 0.24 per MEV; this is 70% below the critical rate. Based on similar statewide intersections, an additional 26 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.

ACCIDENT AND SEVERITY RATES FOR AN INTERSECTION

Intersection:	CSAH 78 @ CSAH 18	
Study Start Date:	01/01/2018	
Study End Date:	09/30/2023	
Length of study in years:	5.75	Days = 2097.736 Weighted
Intersection ADT:	25488	Total Accidents = 11
Number of Fatal Accidents:	0	Total Fatal Accidents = 0 0
Number of "A" P.I. Accidents:	0	Total "A" Injury Accidents = 0 0
Number of "B" P.I. Accidents:	2	Total "B" Injury Accidents = 2 6
Number of "C" P.I. Accidents:	3	Total "C" Injury Accidents = 3 6
Number of Property Damage Accidents:	6	Total Property Damage Accidents = 6 6
		Sum of weighted accidents = 18
Accident Rate (AR) =	0.21	
Severity Rate (SR) =	0.34	