



| DATE, TIME, LIGHT, WEATHER | | | ADT: 43550 (TMC 2553) ACCIDENT RATE: 0.18 CR INDEX: 0.20 SEVERITY RATE: 0.28 FAR INDEX: 0.40 | | |
|--|---|--|--|--|--|
| LIGHT | WEATHER | SEVERITY CODE | COLLISION DIAGRAM | | |
| L = LIGHT DN = DAWN DU = DUSK D = DARK X = UNKNOWN | C = CLEAR CL = CLOUDY R = RAIN S = SNOW/SLEET X = OTHER/UNKNOWN | Ⓝ PROPERTY DAMAGE Ⓢ POSSIBLE INJURY Ⓟ MINOR INJURY Ⓜ SERIOUS INJURY Ⓚ FATALITY | ANOKA COUNTY HIGHWAY DEPT. | | |
| | | | Sheet <u>1</u> of <u>1</u> Sheets | | |

ACCIDENT AND SEVERITY RATES FOR AN INTERSECTION

| | | | |
|--------------------------------------|--------------------|-----------------------------------|----------|
| Intersection: | CSAH 78 @ CSAH 116 | | |
| 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: | 43550 | Total Accidents = | 12 |
| Number of Fatal Accidents: | 0 | Total Fatal Accidents = | 0 |
| Number of "A" P.I. Accidents: | 1 | Total "A" Injury Accidents = | 4 |
| Number of "B" P.I. Accidents: | 1 | Total "B" Injury Accidents = | 3 |
| Number of "C" P.I. Accidents: | 2 | Total "C" Injury Accidents = | 4 |
| Number of Property Damage Accidents: | 8 | Total Property Damage Accidents = | 8 |
| | | Sum of weighted accidents = | 19 |
| Accident Rate (AR) = | 0.18 | | |
| Severity Rate (SR) = | 0.28 | | |

Intersection Safety Screening

Intersection: CSAH 78 @ CSAH 116

Statewide Averages based on 2018-2022 crashes

| Crashes by Crash Severity | |
|---------------------------|----|
| Fatal (K) | 0 |
| Serious Injury (A) | 1 |
| Minor Injury (B) | 1 |
| Possible Injury (C) | 2 |
| Property Damage (PDO) | 8 |
| Total Crashes | 12 |

| Intersection Characteristics | |
|------------------------------|--------|
| Entering Volume | 43,550 |
| Environment | Urban |
| Lighting | Lit |
| Traffic Control | Signal |

Annual crash cost = \$286,000

Statewide comparison = Signal, Low Volume ($\leq 20K$)

| Total Crash Rate | |
|-----------------------|-------------|
| Observed | 0.151 |
| Statewide Average | 0.548 |
| Critical Rate | 0.770 |
| Critical Index | 0.20 |

| Fatal & Serious Injury Crash Rate | |
|-----------------------------------|-------------|
| Observed | 1.258 |
| Statewide Average | 1.024 |
| Critical Rate | 3.110 |
| Critical Index | 0.40 |

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 \div critical crash rate).

The observed total crash rate for this period is 0.15 per MEV; this is 80% below the critical rate. Based on similar statewide intersections, an additional 50 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 1.26 per 100 MEV; this is 60% below the critical rate. The intersection operates within the normal range.