



← DATE, TIME, LIGHT, WEATHER

| LIGHT | WEATHER | SEVERITY CODE |
|-------|---------|---------------|
|-------|---------|---------------|

| | | |
|--|---|--|
| 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 |
|--|---|--|

| | |
|--|---|
| <ul style="list-style-type: none"> ☒ OVERTURN 🔥 FIRE OR EXPLOSION → MOVING VEHICLE ← REAR END ←→ BACKING VEHICLE ☐ COLLISION WITH FIXED OBJECT ↔ SIDE SWIPE SAME DIRECTION ↔ SIDE SWIPE OPPOSITE DIRECTION | <ul style="list-style-type: none"> 🚗 PARKED VEHICLE 🏍️ MOTORCYCLE 🦌 DEER 🚶 PEDESTRIAN 🚲 BICYCLE ☐ FIXED OBJECT ↗ RIGHT ANGLE |
|--|---|

- 🌀 VEHICLE OUT OF CONTROL
- ↙ LEFT TURN INTO ONCOMING TRAFFIC



**ANOKA COUNTY
HIGHWAY DEPT.**

ADT: 10077
ACCIDENT RATE: 0.29 CR INDEX: 0.85
SEVERITY RATE: 0.57 FAR INDEX: 0.99

**COLLISION
DIAGRAM**

CSAH 17 @ CR 60
FROM 01/01/2018 TO
09/30/2022
Sheet 1 of 1 Sheets

ACCIDENT AND SEVERITY RATES FOR AN INTERSECTION

| | | | |
|--------------------------------------|-----------------|-------------------------------------|----------|
| Intersection: | CSAH 17 @ CR 60 | | |
| Study Start Date: | 01/01/2018 | | |
| Study End Date: | 09/30/2022 | | |
| Length of study in years: | 4.75 | Days = 1732.736 | Weighted |
| Intersection ADT: | 10077 | Total Accidents = 5 | |
| 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: | 1 | Total "B" Injury Accidents = 1 | 3 |
| Number of "C" P.I. Accidents: | 0 | Total "C" Injury Accidents = 0 | 0 |
| Number of Property Damage Accidents: | 3 | Total Property Damage Accidents = 3 | 3 |
| | | Sum of weighted accidents = | 10 |
| Accident Rate (AR) = | 0.29 | | |
| Severity Rate (SR) = | 0.57 | | |

Intersection Safety Screening

Intersection: CSAH 17 @ CSAH 60

Statewide Averages based on 2016-2020 crashes

| Crashes by Crash Severity | |
|---------------------------|----------|
| Fatal (K) | 0 |
| Serious Injury (A) | 1 |
| Minor Injury (B) | 1 |
| Possible Injury (C) | 0 |
| Property Damage (PDO) | 3 |
| Total Crashes | 5 |

| Intersection Characteristics | |
|------------------------------|-----------|
| Entering Volume | 10,077 |
| Environment | Rural |
| Lighting | Lit |
| Traffic Control | Thru-Stop |

Annual crash cost = \$203,800

Statewide comparison = Rural, Thru/STOP

| Total Crash Rate | |
|-----------------------|-------------|
| Observed | 0.272 |
| Statewide Average | 0.100 |
| Critical Rate | 0.320 |
| Critical Index | 0.85 |

| Fatal & Serious Injury Crash Rate | |
|-----------------------------------|-------------|
| Observed | 5.432 |
| Statewide Average | 0.548 |
| Critical Rate | 5.480 |
| Critical Index | 0.99 |

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 0.27 per MEV; this is 15% below the critical rate. Based on similar statewide intersections, an additional 1 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 5.43 per 100 MEV; this is 1% below the critical rate. The intersection operates within the normal range.



Crash Case Listing

CSAH 17 AT CR 60

| Route System | Route Number | Measure | Co | City | Incident Number | Date | Time | Day of Week | Basic Type | Num Veh | Sev |
|--------------|--------------|---------|----|----------|-----------------|----------|------|-------------|------------|---------|-----|
| 04-CSAH | 17 | 9.928 | 02 | Ham Lake | 00867334 | 12/09/20 | 1619 | WED | Rear End | 2 | N |
| 04-CSAH | 17 | 9.966 | 02 | Ham Lake | 00937007 | 08/26/21 | 1720 | THU | Head On | 2 | A |
| 07-CR | 60 | 6.573 | 02 | Ham Lake | 00678647 | 01/24/19 | 0627 | THU | Angle | 2 | N |
| 07-CR | 60 | 6.573 | 02 | Ham Lake | 00540800 | 01/28/18 | 1550 | SUN | SVROR | 1 | N |
| 07-CR | 60 | 6.576 | 02 | Ham Lake | 00752835 | 10/07/19 | 1424 | MON | Angle | 2 | B |

Selection Filter:

WORK AREA: County('659447') - FILTER: Year('2018','2019','2020','2021','2022') - SPATIAL FILTER APPLIED

Analyst:

Notes:

Andrea Schmid

01/01/2018 TO 09/30/2022