



CMF / CRF Details

CMF ID: 4699

Convert high-speed rural intersection (4 leg) to roundabout

Description: Convert a high speed rural 4 leg intersection into a roundabout

Prior Condition: 4 leg intersection

Category: Intersection geometry

Study: [*A Statistical Analysis and Development of a Crash Prediction Model for Roundabouts on High-Speed Rural Roadways, Isebrands, 2012*](#)

| | |
|--------------------------------------|--------------------------------------|
| Star Quality Rating: | |
| <input type="text" value="2 Stars"/> | [View score details] |

| Crash Modification Factor (CMF) | |
|--|------|
| Value: | 0.26 |
| Adjusted Standard Error: | |
| Unadjusted Standard Error: | |

| Crash Reduction Factor (CRF) | |
|-------------------------------------|--|
| Value: | 74 (This value indicates a decrease in crashes) |
| Adjusted Standard Error: | |
| Unadjusted Standard Error: | |

Applicability

Crash Type:

All

Crash Severity:

All

Roadway Types:

Not specified

Number of Lanes:

1

Road Division Type:

Speed Limit:

40-65 mph

Area Type:

Rural

Traffic Volume:

Time of Day:

If countermeasure is intersection-based

Intersection Type:

Roadway/roadway (not interchange related)

Intersection Geometry:

4-leg

Traffic Control:

Roundabout

Major Road Traffic Volume:

Minor Road Traffic Volume:

Development Details

Date Range of Data Used:

Municipality:

State:

KS, MD, MN, OR, WA, WI

Country:

Type of Methodology Used:

2

| | |
|---------------------------------|---------------|
| Sample Size Used: | Site-years |
| Before Sample Size Used: | 83 Site-years |
| After Sample Size Used: | 83 Site-years |

| Other Details | |
|---|-------------|
| Included in Highway Safety Manual? | No |
| Date Added to Clearinghouse: | May-01-2013 |
| Comments: | |

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