



CMF / CRF Details

CMF ID: 10083

Conversion of intersection to roundabout

Description: Conversion of stop- and signal-controlled intersections into roundabouts

Prior Condition: Intersections without roundabouts

Category: Intersection geometry

Study: [Safety Evaluation of Roundabouts in Georgia, Gbologah et al., 2019](#)

| | |
|--------------------------------------|--------------------------------------|
| Star Quality Rating: | |
| <input type="text" value="3 Stars"/> | [View score details] |

| Crash Modification Factor (CMF) | |
|--|-------|
| Value: | 0.613 |
| Adjusted Standard Error: | |
| Unadjusted Standard Error: | |

| Crash Reduction Factor (CRF) | |
|-------------------------------------|--|
| Value: | 38.7 (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:

Road Division Type:

Undivided

Speed Limit:

Area Type:

All

Traffic Volume:

Time of Day:

All

If countermeasure is intersection-based

Intersection Type:

Roadway/roadway (not interchange related)

Intersection Geometry:

4-leg

Traffic Control:

Not specified

Major Road Traffic Volume:

Minor Road Traffic Volume:

Development Details

Date Range of Data Used:

2007 to 2014

Municipality:

State:

GA

Country:

United States

Type of Methodology Used:

2

| | |
|--------------------------|--|
| Sample Size Used: | |
|--------------------------|--|

| Other Details | |
|---|--|
| Included in Highway Safety Manual? | No |
| Date Added to Clearinghouse: | Jul-26-2019 |
| Comments: | Applies to the conversion of a four-leg intersection to a single-lane roundabout. CMF analysis includes roundabout locations with less than four average observed crashes per year in before period as one sample, roundabout locations with just a single data-year of crashes in before or after period, and omits roundabout locations with zero observed crashes in the before period. |

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