



CMF / CRF Details

CMF ID: 4259

Convert signalized intersection to modern roundabout

Description:

Prior Condition: Signalized intersection

Category: Intersection geometry

Study: [Evaluation of Safety Strategies at Signalized Intersections, Srinivasan, et al., 2011](#)

Star Quality Rating:



[\[View score details\]](#)

Crash Modification Factor (CMF)

Value: 0.259

Adjusted Standard Error:

Unadjusted Standard Error: 0.066

Crash Reduction Factor (CRF)

Value: 74.1 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error:	6.6
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Applicability

Crash Type:	All
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Crash Severity:	K (fatal),A (serious injury),B (minor injury),C (possible injury)
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Roadway Types:	Not specified
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Number of Lanes:	1 to 2
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Road Division Type:	
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Speed Limit:	
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Area Type:	Suburban
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Traffic Volume:	
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Time of Day:	Not specified
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If countermeasure is intersection-based

Intersection Type:	Roadway/roadway (not interchange related)
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Intersection Geometry:	3-leg,4-leg
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Traffic Control:	Roundabout
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Major Road Traffic Volume:	5322 to 43123 Annual Average Daily Traffic (AADT)
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Minor Road Traffic Volume:	
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Development Details

Date Range of Data Used:	1999 to 2009
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Municipality:	
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State:	CO, FL, IN, MD, MI, NY, NC, SC, VT, WA
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Country:	USA
Type of Methodology Used:	Before/after using empirical Bayes or full Bayes
Sample Size Used:	Sites
Before Sample Size Used:	15 Sites
After Sample Size Used:	15 Sites

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Dec-06-2012
Comments:	Countermeasure name has been slightly modified for consistency across Clearinghouse

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