



CMF / CRF Details

CMF ID: 8457

Install an intersection conflict warning system (ICWS) with overhead signs (various messages) and flashers at the intersection on major; loop on minor

Description: Install an intersection conflict warning system (ICWS) with overhead signs (various messages) and flashers at the intersection on major; loop on minor.

Prior Condition: No intersection conflict warning systems

Category: Signs

Study: [Multi-State Safety Evaluation of Intersection Conflict Warning Systems \(ICWS\), Himes et al, 2016](#)

Star Quality Rating:	
<input type="text" value="4 Stars"/>	[View score details]

Crash Modification Factor (CMF)	
Value:	0.6
Adjusted Standard Error:	
Unadjusted Standard Error:	0.075

Crash Reduction Factor (CRF)	
Value:	40 (This value indicates a decrease in crashes)
Adjusted Standard Error:	

Unadjusted Standard Error:	7.5
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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:	2
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Road Division Type:	
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Speed Limit:	
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Area Type:	Rural
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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:	4-leg
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Traffic Control:	Stop-controlled
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Major Road Traffic Volume:	
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Minor Road Traffic Volume:	
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Development Details

Date Range of Data Used:	
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Municipality:	
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State:	MN, MO, NC
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Country:	
Type of Methodology Used:	2
Sample Size Used:	

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Jan-17-2017
Comments:	CMF for 2-lane at 2-lane intersections

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