



# CMF / CRF Details

CMF ID: 8469

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

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

**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:	
8 Stars	<a href="#">[View score details]</a>

Crash Modification Factor (CMF)	
Value:	1.064
Adjusted Standard Error:	
Unadjusted Standard Error:	0.287

Crash Reduction Factor (CRF)	
Value:	-6.4 (This value indicates an <b>increase</b> in crashes)
Adjusted Standard Error:	

<b>Unadjusted Standard Error:</b>	28.7
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### Applicability

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

<b>Intersection Type:</b>	Roadway/roadway (not interchange related)
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<b>Intersection Geometry:</b>	4-leg
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<b>Traffic Control:</b>	Stop-controlled
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<b>Major Road Traffic Volume:</b>	
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<b>Minor Road Traffic Volume:</b>	
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### Development Details

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

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Jan-17-2017
<b>Comments:</b>	CMF for 2-lane at 2-lane intersections. Authors indicated that this CMF is based on small sample size and should be interpreted with caution.

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