



## CMF / CRF Details

**CMF ID: 2002**

**Convert 12-ft lanes and 6-ft shoulders to 10-ft lanes and 3-ft shoulders**

**Description:**

**Prior Condition: 2-lane rural, undivided. Total width = 26 ft; Lane width = 10 ft; Shoulder width = 3 ft**

**Category: Roadway**

**Study: [Safety Effectiveness of Lane and Shoulder Width Combinations on Rural, Two-Lane, Undivided Roads](#), Gross et al., 2009**

**Star Quality Rating:**



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

### Crash Modification Factor (CMF)

**Value:** 1.13

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.044

### Crash Reduction Factor (CRF)

**Value:** -13 (This value indicates an **increase** in crashes)

**Adjusted Standard Error:**

<b>Unadjusted Standard Error:</b>	4.4
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### Applicability

<b>Crash Type:</b>	Run off road
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<b>Crash Severity:</b>	All
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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>	Undivided
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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>	1000 <i>Annual Average Daily Traffic (AADT)</i>
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<b>Time of Day:</b>	All
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### *If countermeasure is intersection-based*

<b>Intersection Type:</b>	
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<b>Intersection Geometry:</b>	
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<b>Traffic Control:</b>	
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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>	1997 to 2001
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<b>Municipality:</b>	
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<b>State:</b>	PA
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<b>Country:</b>	
<b>Type of Methodology Used:</b>	5
<b>Sample Size Used:</b>	3510 Sites

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Dec-01-2009
<b>Comments:</b>	

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