



# CMF / CRF Details

CMF ID: 2013

Convert 12-ft lanes and 6-ft shoulders to 11-ft lanes and 7-ft shoulders

## Description:

**Prior Condition:** 2-lane rural, undivided. Total width = 30 ft; Lane width = 11 ft; Shoulder width = 4 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:

8 Stars

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

## Crash Modification Factor (CMF)

Value:

1

Adjusted Standard Error:

Unadjusted Standard Error:

0.135

## Crash Reduction Factor (CRF)

Value:

0 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error:

13.5

**Applicability**

<b>Crash Type:</b>	Run off road
<b>Crash Severity:</b>	All
<b>Roadway Types:</b>	Not Specified
<b>Number of Lanes:</b>	2
<b>Road Division Type:</b>	Undivided
<b>Speed Limit:</b>	
<b>Area Type:</b>	Rural
<b>Traffic Volume:</b>	1000 <i>Annual Average Daily Traffic (AADT)</i>
<b>Time of Day:</b>	All

***If countermeasure is intersection-based***

<b>Intersection Type:</b>	
<b>Intersection Geometry:</b>	
<b>Traffic Control:</b>	
<b>Major Road Traffic Volume:</b>	
<b>Minor Road Traffic Volume:</b>	

**Development Details**

<b>Date Range of Data Used:</b>	1997 to 2001
<b>Municipality:</b>	
<b>State:</b>	PA
<b>Country:</b>	

<b>Type of Methodology Used:</b>	5
<b>Sample Size Used:</b>	188 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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