



CMF / CRF Details

CMF ID: 5342

Reduce paved shoulder from 3 ft to 0 ft

Description: Reduce shoulder from 3 ft to 0 ft

Prior Condition: Shoulder width 3 ft

Category: Shoulder treatments

Study: [Safety Effects of Lane Width and Shoulder Width on Two-Lane Rural State Highways in Idaho, Abdel-Rahim and Sonnen, 2012](#)

Star Quality Rating:



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

Crash Modification Factor (CMF)

Value: 1.16

Adjusted Standard Error:

Unadjusted Standard Error:

Crash Reduction Factor (CRF)

Value: -16 (This value indicates an **increase** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error:

Applicability

Crash Type:

All

Crash Severity:

All

Roadway Types:

Not specified

Number of Lanes:

2

Road Division Type:

Undivided

Speed Limit:

Area Type:

Rural

Traffic Volume:

186 to 15106 *Annual Average Daily Traffic (AADT)*

Time of Day:

All

If countermeasure is intersection-based

Intersection Type:

Intersection Geometry:

Traffic Control:

Major Road Traffic Volume:

Minor Road Traffic Volume:

Development Details

Date Range of Data Used:

1993 to 2010

Municipality:

State:

ID

Country:	USA
Type of Methodology Used:	7
Sample Size Used:	7977 Crashes

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Jan-09-2014
Comments:	

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