



CMF / CRF Details

CMF ID: 4588

Convert paved shoulder to gravel shoulder (maintain 1 ft width)

Description: Convert paved shoulder to gravel shoulder (maintain 1 ft width)

Prior Condition: Paved shoulder (HSM notes that to determine the CMF for changing the shoulder type, divide the "new" condition CMF by the "existing" condition CMF.

Category: Shoulder treatments

Study: [Highway Safety Manual, 1st Edition, Various, 2010](#)

Star Quality Rating	
Star Quality Rating:	

Crash Modification Factor (CMF)	
Value:	1
Adjusted Standard Error:	
Unadjusted Standard Error:	

Crash Reduction Factor (CRF)	
Value:	0 (This value indicates a decrease in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	

Applicability

Crash Type:

Head on,Run off road,Sideswipe,Single vehicle

Crash Severity:

Not specified

Roadway Types:

Minor Arterial

Number of Lanes:

2

Road Division Type:

Speed Limit:

Area Type:

Rural

Traffic Volume:

Time of Day:

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:

Municipality:

State:

Country:

Type of Methodology Used:

Sample Size Used:	
Other Details	
Included in Highway Safety Manual?	
Date Added to Clearinghouse:	
Comments:	HSM 1st Ed, Table 13-9

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