



CMF / CRF Details

CMF ID: 6646

Change shoulder width from 8 ft to SW (in feet)

Description:

Prior Condition: *No Prior Condition(s)*

Category: Shoulder treatments

Study: [*Evaluating the Need for Surface Treatments to Reduce Crash Frequency on Horizontal Curves, Pratt et al., 2014*](#)

Star Quality Rating:



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

Crash Modification Factor (CMF)

Value:

$$CMF_{ISW} = e^{-0.0296(ISW-4)}$$

Adjusted Standard Error:

Unadjusted Standard Error:

Crash Reduction Factor (CRF)

Value:

*(This value indicates an **increase** in crashes)*

Adjusted Standard Error:

Unadjusted Standard Error:

Applicability

Crash Type: Wet road

Crash Severity: K (fatal),A (serious injury),B (minor injury),C (possible injury)

Roadway Types: All

Number of Lanes: 4

Road Division Type: Divided by Median

Speed Limit: 80

Area Type:

Traffic Volume: 972 to 70368 *Average Daily Traffic (ADT)*

Time of Day: Not specified

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: 2007 to 2011

Municipality:

State:	TX
Country:	USA
Type of Methodology Used:	Regression cross-section
Sample Size Used:	

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Jun-22-2015
Comments:	This CMF is for crashes on horizontal curves. For situations where the existing (prior) condition is not an 8 ft shoulder width, calculate CMFs separately for the existing condition and the proposed condition and then divide the proposed condition CMF by the existing condition CMF to arrive at the final CMF.

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