



CMF / CRF Details

CMF ID: 10415

Provide 2-ft paved shoulders (both sides)

Description: Provide 2-ft paved shoulders on both sides of 2-lane rural roads

Prior Condition: *No Prior Condition(s)*

Category: Shoulder treatments

Study: [Evaluation of the safety effectiveness of lane departure countermeasures on two-lane undivided roadways using crash modification factors, Dissanayake and Galgamuwa, 2019](#)

Star Quality Rating:



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

Crash Modification Factor (CMF)

Value: 0.66

Adjusted Standard Error:

Unadjusted Standard Error: 0.038

Crash Reduction Factor (CRF)

Value: 34 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error:	3.8
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Applicability

Crash Type:	Run off road
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Crash Severity:	All
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Roadway Types:	Not specified
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Number of Lanes:	
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Road Division Type:	Undivided
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Speed Limit:	
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Area Type:	Rural
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Traffic Volume:	50 to 8550 <i>Annual Average Daily Traffic (AADT)</i>
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Time of Day:	Not specified
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If countermeasure is intersection-based

Intersection Type:	
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Intersection Geometry:	
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Traffic Control:	
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Major Road Traffic Volume:	
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Minor Road Traffic Volume:	
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Development Details

Date Range of Data Used:	2009 to 2014
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Municipality:	
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State:	KS
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Country:	USA
Type of Methodology Used:	7
Sample Size Used:	

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Jun-01-2020
Comments:	CMF for lane departure crashes on curved road segments

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