



CMF / CRF Details

CMF ID: 1917

Install chevron signs, curve warning signs, and sequential flashing beacons

Description: Along a curve with a small radius, large deflection angle, available sight distance smaller than stopping sight distance, and superelevation smaller than demanded at design and operating speed

Prior Condition: No curve delineation treatment

Category: Signs

Study: [Safety Evaluation of Curve Delineation Improvements An Empirical Bayes Observational Before-After Study, Montella, 2009](#)

Star Quality Rating: <input type="text" value="4 Stars"/> [View score details]	
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Crash Modification Factor (CMF)	
Value:	0.564
Adjusted Standard Error:	
Unadjusted Standard Error:	0.13

Crash Reduction Factor (CRF)	
Value:	43.6 (This value indicates a decrease in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	13

Applicability

Crash Type: Wet road

Crash Severity: All

Roadway Types: Principal Arterial Other Freeways and Expressways

Number of Lanes: 4

Road Division Type:

Speed Limit:

Area Type: Not specified

Traffic Volume: 7400 to 13975

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: 2001 to 2005

Municipality: Trans European Road Network, Italy

State:

Country:

Type of Methodology Used:	2
Sample Size Used:	Sites
Before Sample Size Used:	4 Sites
After Sample Size Used:	4 Sites

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Dec-01-2009
Comments:	

This site is funded by the U.S. Department of Transportation Federal Highway Administration and maintained by the University of North Carolina Highway Safety Research Center

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