



CMF / CRF Details

CMF ID: 1910

Install chevron signs and curve warning signs

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="checkbox"/> Stars | [View score details] |

| Crash Modification Factor (CMF) | |
|---------------------------------|-------|
| Value: | 0.564 |
| Adjusted Standard Error: | |
| Unadjusted Standard Error: | 0.1 |

| Crash Reduction Factor (CRF) | |
|------------------------------|--|
| Value: | 43.6 (This value indicates a decrease in crashes) |
| Adjusted Standard Error: | |
| Unadjusted Standard Error: | 10 |

Applicability

Crash Type: Run off 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: 10434 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: | Mile-years |
| Before Sample Size Used: | 6 Mile-years |
| After Sample Size Used: | 6 Mile-years |

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

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