



CMF / CRF Details

CMF ID: 4605

Convert paved shoulder to turf shoulder (maintain 8 ft width)

Description: Convert paved shoulder to turf shoulder (maintain 8 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: | |
| | |

| Crash Modification Factor (CMF) | |
|--|------|
| Value: | 1.11 |
| Adjusted Standard Error: | |
| Unadjusted Standard Error: | |

| Crash Reduction Factor (CRF) | |
|-------------------------------------|--|
| Value: | -11 (This value indicates an increase 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:

No state(s) chosen.

| | |
|----------------------------------|--|
| 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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