



# CMF / CRF Details

**CMF ID: 7230**

**Provide on-ramp**

**Description: Presence of on-ramp**

**Prior Condition: No on-ramp present**

**Category: Access management**

**Study: [NCHRP Report 794: Median Cross-Section Design for Rural Divided Highways, Graham et al., 2014](#)**

**Star Quality Rating:**

Stars

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

## Crash Modification Factor (CMF)

**Value:** 1.318

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.28

## Crash Reduction Factor (CRF)

**Value:** -31.82 (This value indicates an **increase** in crashes)

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 27.99

## Applicability

**Crash Type:**

Cross median,Fixed object,Run off road,Other

**Crash Severity:**

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

**Roadway Types:**

Principal Arterial Other Freeways and Expressways

**Number of Lanes:**

6

**Road Division Type:**

Divided by Median

**Speed Limit:**

**Area Type:**

Rural

**Traffic Volume:**

**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:**

**State:**

OH

**Country:**

USA

**Type of Methodology Used:**

7

<b>Sample Size Used:</b>	
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<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Nov-01-2015
<b>Comments:</b>	This CMF applies to the presence of an on-ramp for median-related crashes on six-lane freeways with flexible barriers. Median-related crashes include hit-barrier, cross-median, non-collision cross-median, rollover, fixed-object, and other median related crashes.

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