



## CMF / CRF Details

**CMF ID: 2927**

**Implement automated speed enforcement cameras**

**Description:**

**Prior Condition: No automated speed enforcement demonstration program**

**Category: Advanced technology and ITS**

**Study: [Evaluation of the Scottsdale Loop 101 automated speed enforcement demonstration program, Shin et al., 2009](#)**

**Star Quality Rating:**



### Crash Modification Factor (CMF)

**Value:** 0.44

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.08

### Crash Reduction Factor (CRF)

**Value:** 56 (This value indicates a **decrease** in crashes)

**Adjusted Standard Error:**

**Unadjusted Standard Error:**

8

### Applicability

**Crash Type:**

All

**Crash Severity:**

0 (property damage only)

**Roadway Types:**

Principal Arterial Other

**Number of Lanes:**

**Road Division Type:**

**Speed Limit:**

**Area Type:**

Urban

**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 2006

**Municipality:**

Scottsdale

**State:**

AZ

<b>Country:</b>	
<b>Type of Methodology Used:</b>	2
<b>Sample Size Used:</b>	
<b>Before Sample Size Used:</b>	790
<b>After Sample Size Used:</b>	193

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Mar-21-2011
<b>Comments:</b>	CMF is for "target" crashes. "Target" crashes are defined as those that occur during non-peak periods (specific to TOD). Peak periods (6AM - 9 AM and 4PM - 7PM); Non-peak periods (remaining 18 hrs for weekdays, 24 hrs for weekends and holidays). The authors of this study also experimented with producing additional CMFs from the same dataset using alternative, less reliable methods. Since this did not add new knowledge to this topic, these CMFs were not included in the Clearinghouse.

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