



CMF / CRF Details

CMF ID: 2914

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: 0.12

Adjusted Standard Error:

Unadjusted Standard Error: 0.09

Crash Reduction Factor (CRF)

Value: 88 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error:

9

Applicability

Crash Type:

Angle,Cross median,Day time,Dry weather,Fixed object,Head on,Left turn,Nighttime,Non-intersection,Parking related,Rear to rear,Right turn,Run off road,Speed related,Truck related,Vehicle/bicycle,Vehicle/pedestrian,Wet road

Crash Severity:

All

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
Country:	
Type of Methodology Used:	2
Sample Size Used:	
Before Sample Size Used:	97
After Sample Size Used:	18

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Mar-21-2011
Comments:	<p>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. -----The star rating for this CMF was modified from 3 to 4 stars in January 2015. The previous star rating was assigned using a sample size score based only on the crashes in the period after the countermeasure installation. The standard scoring method in the Clearinghouse is to score the sample size based on the crashes before the countermeasure installation plus the expected crashes in the after period.</p>

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