



CMF / CRF Details

CMF ID: 7582

Implement mobile automated speed enforcement system

Description: Mobile unit vans with noticeable markings were parked close to the roadway. Police officers in vans operated laser guns and software. Signage and media campaigns informed drivers of enforcement.

Prior Condition: No photo radar

Category: Advanced technology and ITS

Study: [*A Before-and-After Empirical Bayes Evaluation of Automated Mobile Speed Enforcement on Urban Arterial Roads, Li et al., 2015*](#)

Star Quality Rating:



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

Crash Modification Factor (CMF)

Value: 0.799

Adjusted Standard Error:

Unadjusted Standard Error: 0.087

Crash Reduction Factor (CRF)

Value: 20.1 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:	
Unadjusted Standard Error:	8.7

Applicability

Crash Type:	All
Crash Severity:	K (fatal),A (serious injury),B (minor injury),C (possible injury)
Roadway Types:	Principal Arterial Other
Number of Lanes:	
Road Division Type:	All
Speed Limit:	
Area Type:	Urban
Traffic Volume:	2079 to 22960 <i>Annual Average Daily Traffic (AADT)</i>
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:	2005 to 2012
Municipality:	City of Edmonton

State:	
Country:	Canada
Type of Methodology Used:	2
Sample Size Used:	

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Nov-01-2015
Comments:	The number of crashes in the after period were not reported in this study, however, they have been recorded as 300 to give 10 points as a benefit of doubt for one or more of the following: (1) number of miles/sites in the reference/treatment group, (2) number of crashes in the references/treatment group, (3) reporting AADTs for the aggregate dataset but not for the disaggregate dataset used for CMF development.

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