



CMF / CRF Details

CMF ID: 9020

Install a pedestrian hybrid beacon (PHB or HAWK)

Description:

Prior Condition: No PHB

Category: Pedestrians

Study: [Development of Crash Modification Factors for Uncontrolled Pedestrian Crossing Treatments, Zegeer et al., 2017](#)

Star Quality Rating:	
<input type="text" value="8 Stars"/>	[View score details]

Crash Modification Factor (CMF)	
Value:	0.453
Adjusted Standard Error:	
Unadjusted Standard Error:	0.167

Crash Reduction Factor (CRF)	
Value:	54.7 (This value indicates a decrease in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	16.7

Applicability

Crash Type: Vehicle/pedestrian

Crash Severity: All

Roadway Types: Minor Arterial

Number of Lanes: 2 to 8

Road Division Type:

Speed Limit:

Area Type: Urban and suburban

Traffic Volume: 6634 to 48791 *Annual Average Daily Traffic (AADT)*

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: 2004 to 2013

Municipality:

State: AZ, FL, IL, MA, NY, NC, OR, VA, WI

Country: USA

Type of Methodology Used: 7

Sample Size Used:

Other Details

Included in Highway Safety Manual?

No

Date Added to Clearinghouse:

Nov-17-2017

Comments:

Methodology used was a combination of EB before-after and cross-sectional estimations. Also, study sites were a combination of intersection and mid-block locations.

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