



CMF / CRF Details

CMF ID: 10598

Install a pedestrian hybrid beacon (PHB or HAWK)

Description:

Prior Condition: *No Prior Condition(s)*

Category: Pedestrians

Study: [Evaluation of Pedestrian Hybrid Beacons on Arizona Highways, Fitzpatrick et al., 2019](#)

Star Quality Rating:	
8 Stars	[View score details]

Crash Modification Factor (CMF)	
Value:	0.672
Adjusted Standard Error:	
Unadjusted Standard Error:	0.087

Crash Reduction Factor (CRF)	
Value:	32.8 (This value indicates a decrease in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	8.7

Applicability

Crash Type: Rear end

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

Roadway Types: All

Number of Lanes:

Road Division Type:

Speed Limit:

Area Type: Urban and suburban

Traffic Volume:

Time of Day: All

If countermeasure is intersection-based

Intersection Type: Roadway/roadway (not interchange related)

Intersection Geometry: 3-leg,4-leg,Not specified

Traffic Control: Not specified

Major Road Traffic Volume: 5400 to 47627 Annual Average Daily Traffic (AADT)

Minor Road Traffic Volume:

Development Details

Date Range of Data Used: 2007 to 2017

Municipality:

State: AZ

Country:

Type of Methodology Used: 2

Sample Size Used:	
Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Dec-17-2020
Comments:	The reference group consisted of 56 signalized intersections.

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