



CMF / CRF Details

CMF ID: 10590

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:	0.639
Adjusted Standard Error:	
Unadjusted Standard Error:	0.084

Crash Reduction Factor (CRF)	
Value:	36.1 (This value indicates a decrease in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	8.4

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 101 unsignalized intersections.

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