



# CMF / CRF Details

CMF ID: 10600

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:	
4 Stars	

Crash Modification Factor (CMF)	
Value:	0.591
Adjusted Standard Error:	
Unadjusted Standard Error:	0.147

Crash Reduction Factor (CRF)	
Value:	40.9 (This value indicates a <b>decrease</b> in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	14.7

## Applicability

<b>Crash Type:</b>	Vehicle/pedestrian
<b>Crash Severity:</b>	K (fatal),A (serious injury),B (minor injury),C (possible injury)
<b>Roadway Types:</b>	All
<b>Number of Lanes:</b>	
<b>Road Division Type:</b>	
<b>Speed Limit:</b>	
<b>Area Type:</b>	Urban and suburban
<b>Traffic Volume:</b>	
<b>Time of Day:</b>	All

### *If countermeasure is intersection-based*

<b>Intersection Type:</b>	Roadway/roadway (not interchange related)
<b>Intersection Geometry:</b>	3-leg,4-leg,Not specified
<b>Traffic Control:</b>	Not specified
<b>Major Road Traffic Volume:</b>	5400 to 47627 Annual Average Daily Traffic (AADT)
<b>Minor Road Traffic Volume:</b>	

## Development Details

<b>Date Range of Data Used:</b>	2007 to 2017
<b>Municipality:</b>	
<b>State:</b>	AZ
<b>Country:</b>	
<b>Type of Methodology Used:</b>	2

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

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