



# CMF / CRF Details

CMF ID: 4116

## Increase cycle length for pedestrian crossing

**Description:** Increase the total cycle length to lengthen pedestrian crossing time.

**Prior Condition:** The cycle lengths of many of the intersections on Queens Boulevard (a 12-lane thoroughfare) and Ocean Parkway (has a central 7-lane roadway, two service roads, and two medians with trees) were increased as a traffic safety countermeasure: from 120-second to 150-second on Queens Boulevard, allowing an additional 20-second walk time for pedestrians crossing the very wide main street, and from 90 to 120 seconds on Ocean Parkway, allowing an increase in pedestrian crossing time from 6 to 17 seconds.

**Category:** Pedestrians

**Study:** [\*The Relative Effectiveness of Pedestrian Safety Countermeasures at Urban Intersections - Lessons from a New York City Experience, Li Chen, Cynthia Chen, and Reid Ewing, 2012\*](#)

Star Quality Rating:	
<input type="text" value="2 Stars"/>	<a href="#">[View score details]</a>

Crash Modification Factor (CMF)	
Value:	0.55
Adjusted Standard Error:	
Unadjusted Standard Error:	

Crash Reduction Factor (CRF)
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<b>Value:</b>	45 (This value indicates a <b>decrease</b> in crashes)
<b>Adjusted Standard Error:</b>	
<b>Unadjusted Standard Error:</b>	

### Applicability

<b>Crash Type:</b>	Angle,Head on,Left turn,Rear end,Rear to rear,Right turn,Sideswipe
<b>Crash Severity:</b>	All
<b>Roadway Types:</b>	Not Specified
<b>Number of Lanes:</b>	6
<b>Road Division Type:</b>	All
<b>Speed Limit:</b>	
<b>Area Type:</b>	Urban
<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,More than 4 legs
<b>Traffic Control:</b>	Signalized
<b>Major Road Traffic Volume:</b>	
<b>Minor Road Traffic Volume:</b>	

### Development Details

<b>Date Range of Data Used:</b>	1998 to 2008
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<b>Municipality:</b>	New York City
<b>State:</b>	NY
<b>Country:</b>	USA
<b>Type of Methodology Used:</b>	3
<b>Sample Size Used:</b>	Crashes
<b>Before Sample Size Used:</b>	1609 Crashes
<b>After Sample Size Used:</b>	357 Crashes

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Nov-01-2012
<b>Comments:</b>	The corresponding change in crashes in the comparison group was a 37 percent reduction in multiple-vehicle crashes. This could be used to adjust the treatment effect to account for other factors not related to the treatment.

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