



## CMF / CRF Details

**CMF ID: 8389**

### Installation of fixed speed cameras

**Description:** Installation of fixed speed cameras on arterials limited access freeways

**Prior Condition:** No speed camera present

**Category:** Speed management

**Study:** [\*Safety effects of fixed speed cameras - An empirical Bayes evaluation, Hoyer, 2015\*](#)

Star Quality Rating:



### Crash Modification Factor (CMF)

**Value:** 0.51

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.222

### Crash Reduction Factor (CRF)

**Value:** 49 (This value indicates a **decrease** in crashes)

**Adjusted Standard Error:**

<b>Unadjusted Standard Error:</b>	22.19
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### Applicability

<b>Crash Type:</b>	All
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<b>Crash Severity:</b>	K (fatal),A (serious injury)
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<b>Roadway Types:</b>	Not specified
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<b>Number of Lanes:</b>	2
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<b>Road Division Type:</b>	
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<b>Speed Limit:</b>	50 to 90 kph
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<b>Area Type:</b>	Rural
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<b>Traffic Volume:</b>	
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<b>Time of Day:</b>	All
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### *If countermeasure is intersection-based*

<b>Intersection Type:</b>	
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<b>Intersection Geometry:</b>	
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<b>Traffic Control:</b>	
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<b>Major Road Traffic Volume:</b>	
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<b>Minor Road Traffic Volume:</b>	
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### Development Details

<b>Date Range of Data Used:</b>	2001 to 2013
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<b>Municipality:</b>	
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<b>State:</b>	
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<b>Country:</b>	Norway
<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>	Nov-10-2016
<b>Comments:</b>	Medium section: 100m upstream and 1km downstream of camera location. Camera installed during 2004-2010 period

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