



# CMF / CRF Details

**CMF ID: 2122**

**Install single lane roundabout**

**Description:**

**Prior Condition: intersections with yield control**

**Category: Intersection geometry**

**Study:** [\*Turbo Roundabouts: Design Principles and Safety Performance, Fortuijn, 2009\*](#)

**Star Quality Rating:**



[\[View score details\]](#)

## Crash Modification Factor (CMF)

**Value:** 0.213

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.421

## Crash Reduction Factor (CRF)

**Value:** 78.7 (This value indicates a **decrease** in crashes)

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 42.1

### Applicability

**Crash Type:** All

**Crash Severity:** All

**Roadway Types:** Not Specified

**Number of Lanes:** 2

**Road Division Type:**

**Speed Limit:**

**Area Type:**

**Traffic Volume:**

**Time of Day:** All

### *If countermeasure is intersection-based*

**Intersection Type:** Roadway/roadway (not interchange related)

**Intersection Geometry:** 4-leg

**Traffic Control:** Roundabout

**Major Road Traffic Volume:**

**Minor Road Traffic Volume:**

### Development Details

**Date Range of Data Used:**

**Municipality:** Netherlands

**State:**

<b>Country:</b>	
<b>Type of Methodology Used:</b>	3
<b>Sample Size Used:</b>	Sites
<b>Before Sample Size Used:</b>	39 Sites
<b>After Sample Size Used:</b>	39 Sites

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Dec-01-2009
<b>Comments:</b>	

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