

FHWA's Proven Safety Countermeasures Program

MAKING OUR ROADS SAFER

One
Countermeasure
at a Time

*28 Proven Safety Countermeasures that offer significant
and measurable impacts to improving safety*



U.S. Department of Transportation
Federal Highway Administration

ZERO IS OUR
GOAL

A SAFE SYSTEM IS HOW WE GET THERE

<https://safety.fhwa.dot.gov/>

- Program began in 2008
- FHWA promoted widespread use of certain infrastructure-oriented safety treatments.

MAKING OUR ROADS SAFER

One
Countermeasure
at a Time



- Updated countermeasures in
 - 2012
 - 2017
 - 2021
- 28 current countermeasures

Proven Safety Countermeasures

These strategies are designed to enhance safety on all kinds of roads—from rural to urban, from high-volume freeways to less traveled two-lane State and county roads, from signalized crossings to horizontal curves, and everything in between.



The cumulative list is diverse and broad to successfully address:

- ✓ speed management
- ✓ intersections
- ✓ roadway departures
- ✓ pedestrians/ bicyclists
- ✓ crosscutting strategies

Speed Management

SPEED MANAGEMENT



Speed Safety
Cameras



Variable Speed Limits



Appropriate Speed
Limits for All Road
Users

Intersections

INTERSECTIONS



Backplates with
Reflective Borders



Corridor Access
Management



Left- and Right-Turn
Lanes at Two-Way
Stop-Controlled
Intersections



Reduced Left-Turn
Conflict Intersections



Roundabouts



Systemic Application
of Multiple Low Cost
Countermeasures at
Stop-Controlled
Intersections



Yellow Change
Intervals

Pedestrians/ Bicyclists

PEDESTRIAN/BICYCLIST



Crosswalk Visibility Enhancements



Bicycle Lanes



Rectangular Rapid Flashing Beacons



Leading Pedestrian Interval



Medians and Pedestrian Refuge Islands in Urban and Suburban Areas



Pedestrian Hybrid Beacons



Road Diets (Roadway Reconfiguration)



Walkways

Roadway Departures

ROADWAY DEPARTURE



Wider Edge Lines



Enhanced Delineation
for Horizontal Curves



Longitudinal Rumble
Strips and Stripes



SafetyEdgeSM



Roadside Design
Improvements at
Curves



Median Barriers

Crosscutting Strategies

CROSSCUTTING



Pavement Friction
Management



Lighting



Local Road Safety
Plans



Road Safety Audits

Proven Safety Countermeasures Tool

PROVEN SAFETY
COUNTERMEASURES
(PSC) TOOLS NEW



[FILTER TOOL »](#)

Filter countermeasures by focus area, crash type, problem identified, and area type.



SEARCH PSCs

Search

What is the functional classification of the roadway?

- ☐ Freeway
- ☐ Highway
- ☐ Arterial
- ☐ Collector
- ☐ Local

Which focus area is being addressed?

- ☐ Roadway Departure
- ☐ Intersection
- ☐ Pedestrian
- ☐ Bicyclist
- ☐ Speed Management

What is vehicular volume in Average Annual Daily Traffic (AADT) along the major roadway?

- ☐ Low (<2,000)
- ☐ Medium (2,000-15,000)
- ☐ High (>15,000)

What problem is being addressed?

- ☐ Inadequate Visibility, Conspicuity, or Sight Distance
- ☐ Excessive Vehicular Conflicts
- ☐ Congestion
- ☐ Excessive Speeds
- ☐ Non-Compliance (yielding right-of-way)
- ☐ No Separation of Users
- ☐ Vulnerable Users not Considered
- ☐ Driver Inattention (distracted/drowsy)
- ☐ Driver Impairment (alcohol/drugs)

What specific crash types are being targeted at the location?

- ☐ Angle
- ☐ Left-Turn
- ☐ Right-Turn
- ☐ Rear End
- ☐ Pedestrian/Bicyclist
- ☐ Head On
- ☐ Run-Off-Road/Single Vehicle
- ☐ Sideswipe, same direction
- ☐ Sideswipe, opposite direction
- ☐ Wet
- ☐ Nighttime
- ☐ Speed-related
- ☐ Rollover
- ☐ Fixed-Object

Apply Filters

Clear Form

For More Information See FHWA's Proven Safety Countermeasures Homepage:

<https://safety.fhwa.dot.gov/provencountermeasures/index.cfm>

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