

Making Rural Highways Safer

Innovations and Solutions



7 Year Fatality Trend



2002 = 1,208

2003 = 1,232

2004 = 1,130

2005 = 1,257

2006 = 1,096

2007 = 992

2008 = 960

Fatal Crash Locations are Random

Fatal Crash Types are Not

People continue to die on our roadways making the same mistakes year after year

2005

2006

2007

2008

No Seat Belt

No Seat Belt

No Seat Belt

No Seat Belt

Run Off Road

Run Off Road

Run Off Road

Run Off Road

Aggressive

Aggressive

Aggressive

Aggressive

Curves

Curves

Curves

Curves

Impaired

Impaired

Impaired

Impaired

Fatality Locations

	2005 Fatalities					
	Total		Rural		Urban	
State System	967	77%	686	71%	281	29%
Non-State	290	23%	110	38%	180	62%
Total	1,257		796	63%	461	37%

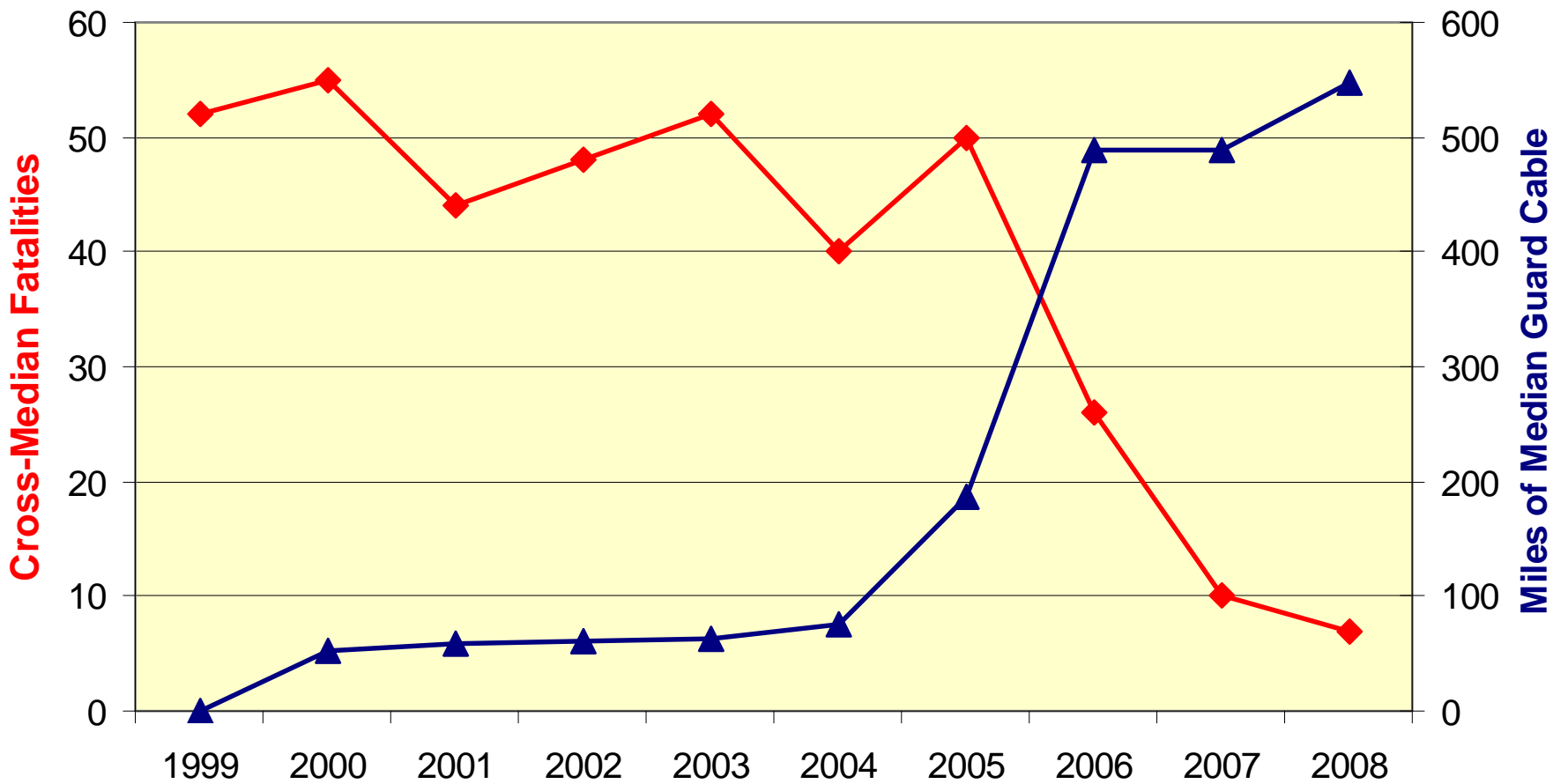
	2008 Fatalities					
	Total		Rural		Urban	
State System	704	73%	509	72%	195	28%
Non-State	256	27%	90	35%	166	65%
Total	960		599	62%	361	38%

Rural Solutions

- **System-wide Applications**
- **Roadway Design**
- **Intelligent Transportation System**
- **Rural Emergency Response**

Install Median Guard Cable

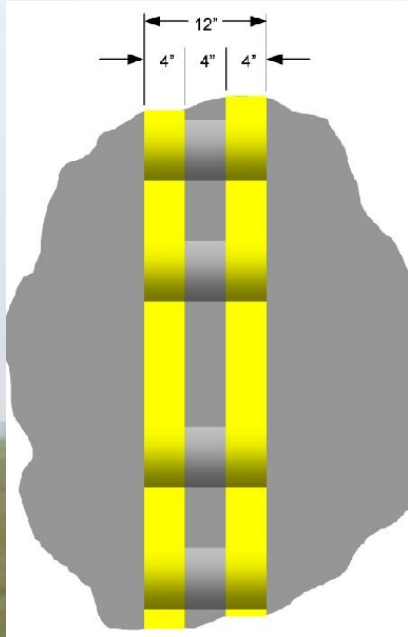
Interstate Cross-Median Fatalities and Median Guard Cable Installation



Implement System-wide Safety

- **Improved Driving Surface**
- **6-inch Stripes for Major Roads**
- **Improved Paved Shoulder**

Implement System-wide Safety



- **Install Rumblestripes**
 - **Edgeline & Centerline**

Implement System-wide Safety

➤ Curve Speed Plaques

- Every Curve/Turn sign



➤ Improved Signs

- Larger & more visible

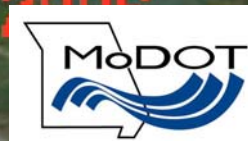
Implement System-wide Safety

➤ Better Delineation

➤ Emergency Reference Markers



MAR 8 2006



Implement System-wide Safety

- **Install More Chevrons**
- **Paint More Edgelines**

Implement System-wide Safety

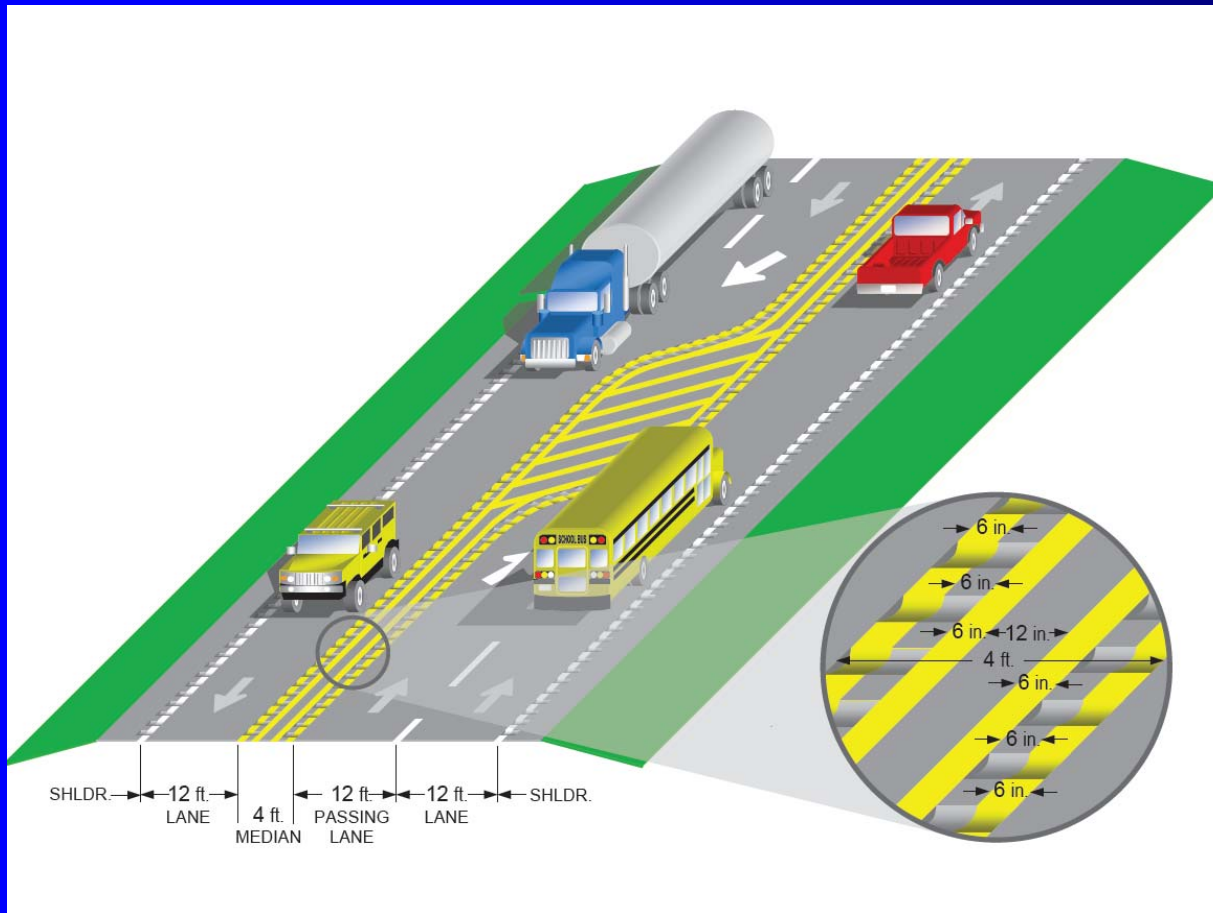
➤ **Remove Objects**

Results of Safety Solutions

- Reduced lane departure fatalities by 25%
- Significant reduction in nighttime fatal and disabling injury crashes on rural roads (25 to 77 percent)
- Received an estimated \$9.70 in benefits for every dollar spent
- 79 percent of Missouri motorists surveyed believe the improvements have been a good investment

Roadway Design

Shared Four-Lane Roadway



Benefits

Shared Four-Lane

Faster

Less time spent behind slow-moving vehicles.

Safer

Reduces crashes & their severity, as much as 55% compared to 2-lane roads.

- ### Cheaper

Up to 75% less right-of-way, construction.

- ### Flexible

Design can fit location.



Rural ITS

- 66 Electronic Message Boards
- 68 Closed Circuit TV Cameras
- 13 Road Weather Information Sensors



Rural Emergency Response

Primary Responsibility: Get the road open and traffic flowing again as soon as possible

- **Designated staff and equipment for traffic control on rural corridors**

- **24/7 Response Trucks equipped with traffic control and other basics**
- **Trailers positioned at key locations along rural corridors**



Traveler Information Map

MoDOT Traveler Information Map - Microsoft Internet Explorer provided by MoDOT

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Address <http://maps.modot.mo.gov/travelerinformation/TravelerInformation.aspx> Go Links

MoDOT Traveler Information Map
Missouri Department of Transportation

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Legend

- Road Closures
 - Workzone
 - Incident
 - Flood
 - Winter Weather
 - Planned
- Workzones
 - Expect Delays
 - Possible Delays
- Incidents
 - Expect Delays
 - Possible Delays
- Winter Road Conditions
 - Covered
 - Partly Covered
 - Clear

[Refresh Map](#)
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[Text Report \(All\)](#)
[Text Report \(Road Closures\)](#)
[Borderline States](#)

ROAD CLOSED
US 61
Clark County
Road closed due to flooding
since 12-JUN-08.
Des Moines And Mississippi River At Alexandria

Map data ©2008 Tele Atlas. Terms of Use

Internet

2008-2012

MISSOURI'S
BLUEPRINT TO
ARRIVE ALIVE

GOAL

850 or Fewer

Fatalities

By

2012

