



Highway Safety Improvement Program  
*Data Driven Decisions*

Florida  
Highway Safety Improvement Program  
2015 Annual Report

Prepared by: FL

## Disclaimer

### **Protection of Data from Discovery & Admission into Evidence**

23 U.S.C. 148(h)(4) states “Notwithstanding any other provision of law, reports, surveys, schedules, lists, or data compiled or collected for any purpose relating to this section [HSIP], shall not be subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location identified or addressed in the reports, surveys, schedules, lists, or other data.”

23 U.S.C. 409 states “Notwithstanding any other provision of law, reports, surveys, schedules, lists, or data compiled or collected for the purpose of identifying, evaluating, or planning the safety enhancement of potential accident sites, hazardous roadway conditions, or railway-highway crossings, pursuant to sections 130, 144, and 148 of this title or for the purpose of developing any highway safety construction improvement project which may be implemented utilizing Federal-aid highway funds shall not be subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location mentioned or addressed in such reports, surveys, schedules, lists, or data.”

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## Executive Summary

The Florida Department of Transportation continues the critical work of providing a safe transportation system for the residents and visitors of Florida. The primary instrument which guides this work is the state's Strategic Highway Safety Plan. The plan identifies the main types of crashes which stakeholders through input and data analysis have selected as areas which require a suite of countermeasures to address. The plan directs the engineering, education, enforcement and emergency services, or the "4 E's" in their collective efforts to reduce fatal and serious injury crashes. When countermeasures from the 4 E's are applied to a crash type, the reductions gained are typically greater than if just one type of countermeasure were applied. This holistic approach to transportation safety represents the best value for taxpayers. The plan is divided into individual Emphasis Areas, whose goal is to reduce a specific type of crash. The overall goal of the plan is to reduce fatal and serious injuries. The plan is divided into nine emphasis areas; Lane Departure, Intersections, Aggressive Driving, Teen Drivers, Drivers Age 65 and Older, Impaired Driving, Pedestrians and Bicyclists, Motorcycles and Distracted Drivers. The goal of the plan is to achieve a 5% reduction in the 5 – year rolling average of fatal and serious injury crashes, both overall and within each emphasis area.

The crash trend from 2009 to 2013 within each emphasis areas shows that in most cases we are meeting the 5% reduction goal. The state is meeting its overall goal of a 5% reduction in fatal and serious injury crashes. The state is also exceeding the reduction goal in the following emphasis areas: Intersections, Lane Departure, Teen Drivers and Impaired Driving. With the implementation of more stringent laws regarding the licensing of teen drivers, this emphasis area saw a 20% reduction below the plan's goal in fatal and serious injury crashes in 2013. The state is not meeting the reduction goal in the following emphasis areas: Pedestrians and Bicyclists, Motorcyclists and Drivers Age 65 and Older. In the case of Motorcyclists, crashes are being reduced, but not as much as the plan requires. In the remaining emphasis areas, the crashes are either holding steady or increasing. There are many efforts underway through diverse coalitions of stakeholders to address all emphasis areas.

Due to changes in Florida's crash report form in 2010, crash trends for the Aggressive Driving and Distracted Driving emphasis areas are not being reported at this time. As with the other emphasis areas, efforts are underway to address these crash types.

The department received an allocation of \$120.1 million in Highway Safety Improvement Program and High Risk Rural Road funds during the 2014 state fiscal year, which began on July 1, 2014, and ended on June 30, 2015. The two funding allocations received were \$118.9 million for the Highway Safety Improvement Program and \$1.2 million for the High Risk Rural Roads program. This funding was used to complete 263 projects which were in various stages of planning, design, construction or close-out. 131 of these projects were construction projects or other safety projects which significantly advanced the

state's plan. \$13.4 million of the funds were used for projects on local roadways. Additionally, \$10 million in funding was used for systemic projects, which not only address locations experiencing a high frequency of crashes, but areas which represent a high risk of experiencing a high frequency of crashes in the future.

All projects funded through the Highway Safety Improvement Program are required to be focused on addressing crashes in one of the plan's emphasis areas. The Intersections emphasis area had 137 projects, totaling \$59.7 million in funding, the Lane Departure emphasis area had 62 projects, totaling \$32.9 million in funding and the Pedestrian and Bicyclist emphasis area had 54 projects, totaling \$16.5 million in funding. A caveat for these figures is that one project frequently deploys multiple countermeasures, which may benefit multiple emphasis areas. These figures should be considered minimums and not explicit counts of the projects and countermeasures for each emphasis area.

## Introduction

The Highway Safety Improvement Program (HSIP) is a core Federal-aid program with the purpose of achieving a significant reduction in fatalities and serious injuries on all public roads. As per 23 U.S.C. 148(h) and 23 CFR 924.15, States are required to report annually on the progress being made to advance HSIP implementation and evaluation efforts. The format of this report is consistent with the HSIP MAP-21 Reporting Guidance dated February 13, 2013 and consists of four sections: program structure, progress in implementing HSIP projects, progress in achieving safety performance targets, and assessment of the effectiveness of the improvements.

## Program Structure

### Program Administration

**How are Highway Safety Improvement Program funds allocated in a State?**

Central

District

Other

**Describe how local roads are addressed as part of Highway Safety Improvement Program.**

Due to changes in the Florida Traffic Crash Report, Long Form, the State Safety Office (SSO) was unable to develop a high crash location list for local roads during the reporting period. However, the SSO supported the districts with identifying high crash locations on local roads through Geographic Information Systems (GIS) analysis. The SSO developed several analyses of pedestrian and bicyclist involved crashes and intersection crashes. The department is working towards developing a replacement system that will once again provide high crash listings on local roads.

Additionally, other local projects are identified a coordinated effort with the District Safety Engineer and the Community Traffic Safety Teams.

**Identify which internal partners are involved with Highway Safety Improvement Program planning.**

- Design
- Planning
- Maintenance
- Operations
- Governors Highway Safety Office
- Other:

**Briefly describe coordination with internal partners.**

District staff coordinate with planning, design, and operations for planning HSIP projects. Central Office staff then coordinates with District staff on programming and funding projects. District staff look at opportunities to program HSIP project components concurrently with other projects in the Department's work program.

Other HSIP planning activities include efforts with the Strategic Highway Safety Plan (SHSP). Special emphasis areas teams have been formed based on the SHSP structure. Each team is made up of key personnel within the department and from other agencies or groups which have an interest or responsibility in the emphasis area. The teams meet to develop goals, objectives and action items using the SHSP as the guiding principle. Quarterly meetings are held to discuss progress on action items, plan new work and share best practices.

**Identify which external partners are involved with Highway Safety Improvement Program planning.**

- Metropolitan Planning Organizations

- Governors Highway Safety Office
- Local Government Association
- Other: Other-Community Traffic Safety Team (CTST)

**Identify any program administration practices used to implement the HSIP that have changed since the last reporting period.**

- Multi-disciplinary HSIP steering committee
- Other: Other-None

**Describe any other aspects of Highway Safety Improvement Program Administration on which you would like to elaborate.**

The HSIP program is centrally managed for both funding and administration of the program. Each district is responsible for submitting projects for funding consideration annually. The State Safety Office reviews district submitted projects annually and determines funding based on need, project priorities and the Net Present Value (NPV) of an individual project.

### Program Methodology

**Select the programs that are administered under the HSIP.**

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Median Barrier         | <input checked="" type="checkbox"/> Intersection    | <input type="checkbox"/> Safe Corridor                |
| <input type="checkbox"/> Horizontal Curve       | <input checked="" type="checkbox"/> Bicycle Safety  | <input type="checkbox"/> Rural State Highways         |
| <input checked="" type="checkbox"/> Skid Hazard | <input checked="" type="checkbox"/> Crash Data      | <input type="checkbox"/> Red Light Running Prevention |
| <input type="checkbox"/> Roadway Departure      | <input type="checkbox"/> Low-Cost Spot Improvements | <input type="checkbox"/> Sign Replacement And         |



- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Local Safety    | <input checked="" type="checkbox"/> Pedestrian Safety | Improvement<br><input type="checkbox"/> Right Angle Crash |
| <input type="checkbox"/> Left Turn Crash | <input type="checkbox"/> Shoulder Improvement         | <input checked="" type="checkbox"/> Segments              |
| <input type="checkbox"/> Other:          |   |   |

**Program:** Intersection

**Date of Program Methodology:** 9/1/2007

**What data types were used in the program methodology?**

- |   |   |  |
|---|---|--|
| <i>Crashes</i>  | <i>Exposure</i>                             | <i>Roadway</i>                                       |
| <input type="checkbox"/> All crashes                                      | <input checked="" type="checkbox"/> Traffic | <input type="checkbox"/> Median width                |
| <input type="checkbox"/> Fatal crashes only                               | <input type="checkbox"/> Volume             | <input type="checkbox"/> Horizontal curvature        |
| <input checked="" type="checkbox"/> Fatal and serious injury crashes only | <input type="checkbox"/> Population         | <input type="checkbox"/> Functional classification   |
| <input type="checkbox"/> Other  | <input type="checkbox"/> Lane miles         | <input type="checkbox"/> Roadside features           |
|   | <input type="checkbox"/> Other              | <input checked="" type="checkbox"/> Other-Mile Point |

**What project identification methodology was used for this program?**

- Crash frequency
- Expected crash frequency with EB adjustment
- Equivalent property damage only (EPDO Crash frequency)

- EPDO crash frequency with EB adjustment
- Relative severity index
- Crash rate
- Critical rate
- Level of service of safety (LOSS)
- Excess expected crash frequency using SPFs
- Excess expected crash frequency with the EB adjustment
- Excess expected crash frequency using method of moments
- Probability of specific crash types
- Excess proportions of specific crash types
- Other

**Are local roads (non-state owned and operated) included or addressed in this program?**

- Yes
- No

If yes, are local road projects identified using the same methodology as state roads?

- Yes
- No

**How are highway safety improvement projects advanced for implementation?**

- Competitive application process
- selection committee
- Other-Districts coordinate with staff for projects and submit to Central Office for approval.

**Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical**

**rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).**

Relative Weight in Scoring

Rank of Priority Consideration

Ranking based on B/C

Available funding

Incremental B/C

Ranking based on net benefit

Other

A score is provided for each project that includes the following: Benefit Cost Ratio greater than 1, and is on the High Crash Intersection List.

**Program:** Bicycle Safety

**Date of Program Methodology:** 9/12/2012

**What data types were used in the program methodology?**

*Crashes*

All crashes

Fatal crashes only

Fatal and serious injury crashes only

*Exposure*

Traffic

Volume

Population

*Roadway*

Median width

Horizontal curvature

Functional classification

- |                                |                                     |  |
|--------------------------------|-------------------------------------|--|
| <input type="checkbox"/> Other | <input type="checkbox"/> Lane miles | <input type="checkbox"/> Roadside features |
|                                | <input type="checkbox"/> Other      | <input type="checkbox"/> Other             |

**What project identification methodology was used for this program?**

- Crash frequency
- Expected crash frequency with EB adjustment
- Equivalent property damage only (EPDO Crash frequency)
- EPDO crash frequency with EB adjustment
- Relative severity index
- Crash rate
- Critical rate
- Level of service of safety (LOSS)
- Excess expected crash frequency using SPFs
- Excess expected crash frequency with the EB adjustment
- Excess expected crash frequency using method of moments
- Probability of specific crash types
- Excess proportions of specific crash types
- Other-Projects are identified using GIS analysis of crash locations and frequency.

**Are local roads (non-state owned and operated) included or addressed in this program?**

- Yes
- No

If yes, are local road projects identified using the same methodology as state roads?

- Yes
- No

**How are highway safety improvement projects advanced for implementation?** Competitive application process selection committee Other-Locations are identified through GIS analysis by Central Office or vetted through the districts. District submitted projects are evaluated using a Benefit Cost Ratio greater than 1.

**Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).**

 Relative Weight in Scoring Rank of Priority Consideration Ranking based on B/C Available funding Incremental B/C Ranking based on net benefit Cost Effectiveness 1

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**Program:** Skid Hazard**Date of Program Methodology:** 9/1/2007**What data types were used in the program methodology?**

<i>Crashes</i>	<i>Exposure</i>	<i>Roadway</i>
<input type="checkbox"/> All crashes	<input checked="" type="checkbox"/> Traffic	<input type="checkbox"/> Median width
<input type="checkbox"/> Fatal crashes only	<input type="checkbox"/> Volume	<input type="checkbox"/> Horizontal curvature
<input checked="" type="checkbox"/> Fatal and serious injury crashes only	<input type="checkbox"/> Population	<input type="checkbox"/> Functional classification
<input type="checkbox"/> Other	<input type="checkbox"/> Lane miles	<input type="checkbox"/> Roadside features
	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Other-Friction Number

**What project identification methodology was used for this program?**

- Crash frequency
- Expected crash frequency with EB adjustment
- Equivalent property damage only (EPDO Crash frequency)
- EPDO crash frequency with EB adjustment
- Relative severity index
- Crash rate
- Critical rate
- Level of service of safety (LOSS)
- Excess expected crash frequency using SPFs
- Excess expected crash frequency with the EB adjustment
- Excess expected crash frequency using method of moments
- Probability of specific crash types
- Excess proportions of specific crash types
- Other

**Are local roads (non-state owned and operated) included or addressed in this program?**

Yes No**How are highway safety improvement projects advanced for implementation?** Competitive application process selection committee Other

**Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).**

 Relative Weight in Scoring Rank of Priority Consideration Ranking based on B/C Available funding Incremental B/C Ranking based on net benefit Other A score is provided for each project that includes the following: Benefit Cost Ratio greater than 1, and is on the High Crash Segment List.

**Program:** Crash Data

**Date of Program Methodology:** 9/1/2006

**What data types were used in the program methodology?**

*Crashes*

- All crashes
- Fatal crashes only
- Fatal and serious injury crashes only
- Other-Fatal, Serious Injury, Injury and PDO Crashes reported on Florida Traffic Crash Report, Long Form.

*Exposure*

- Traffic
- Volume
- Population
- Lane miles
- Other

*Roadway*

- Median width
- Horizontal curvature
- Functional classification
- Roadside features
- Other

**What project identification methodology was used for this program?**

- Crash frequency
- Expected crash frequency with EB adjustment
- Equivalent property damage only (EPDO Crash frequency)
- EPDO crash frequency with EB adjustment
- Relative severity index
- Crash rate
- Critical rate
- Level of service of safety (LOSS)
- Excess expected crash frequency using SPFs
- Excess expected crash frequency with the EB adjustment



- Excess expected crash frequency using method of moments
- Probability of specific crash types
- Excess proportions of specific crash types
- Other

**Are local roads (non-state owned and operated) included or addressed in this program?**

- Yes
- No

**How are highway safety improvement projects advanced for implementation?**

- Competitive application process
- selection committee
- Other

**Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).**

- Relative Weight in Scoring
- Rank of Priority Consideration
  
- Ranking based on B/C
- Available funding
- Incremental B/C
- Ranking based on net benefit
- Other

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**Program:** Pedestrian Safety

**Date of Program Methodology:** 9/1/2012

**What data types were used in the program methodology?**

*Crashes*

All crashes

Fatal crashes only

Fatal and serious injury  
crashes only

Other

*Exposure*

Traffic

Volume

Population

Lane miles

Other

*Roadway*

Median width

Horizontal curvature

Functional classification

Roadside features

Other

**What project identification methodology was used for this program?**

Crash frequency

Expected crash frequency with EB adjustment

Equivalent property damage only (EPDO Crash frequency)

EPDO crash frequency with EB adjustment

Relative severity index

Crash rate

Critical rate

Level of service of safety (LOSS)

Excess expected crash frequency using SPFs

Excess expected crash frequency with the EB adjustment

- Excess expected crash frequency using method of moments
- Probability of specific crash types
- Excess proportions of specific crash types
- Other-Projects are identified using GIS analysis of crash locations and frequency.

**Are local roads (non-state owned and operated) included or addressed in this program?**

Yes

No

If yes, are local road projects identified using the same methodology as state roads?

Yes

No

**How are highway safety improvement projects advanced for implementation?**

Competitive application process

selection committee

Other

**Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).**

Relative Weight in Scoring

Rank of Priority Consideration

Ranking based on B/C

Available funding

- Incremental B/C
- Ranking based on net benefit
- Cost Effectiveness 1

**Program:** **Segments**

**Date of Program Methodology:** **9/1/2007**

**What data types were used in the program methodology?**

- |   |   |  |
|---|---|--|
| <i>Crashes</i>  | <i>Exposure</i>                             | <i>Roadway</i>                                       |
| <input type="checkbox"/> All crashes                                      | <input checked="" type="checkbox"/> Traffic | <input type="checkbox"/> Median width                |
| <input type="checkbox"/> Fatal crashes only                               | <input type="checkbox"/> Volume             | <input type="checkbox"/> Horizontal curvature        |
| <input checked="" type="checkbox"/> Fatal and serious injury crashes only | <input type="checkbox"/> Population         | <input type="checkbox"/> Functional classification   |
| <input type="checkbox"/> Other  | <input type="checkbox"/> Lane miles         | <input type="checkbox"/> Roadside features           |
|   | <input type="checkbox"/> Other              | <input checked="" type="checkbox"/> Other-Mile Point |

**What project identification methodology was used for this program?**

- Crash frequency
- Expected crash frequency with EB adjustment
- Equivalent property damage only (EPDO Crash frequency)
- EPDO crash frequency with EB adjustment
- Relative severity index
- Crash rate

- Critical rate
- Level of service of safety (LOSS)
- Excess expected crash frequency using SPFs
- Excess expected crash frequency with the EB adjustment
- Excess expected crash frequency using method of moments
- Probability of specific crash types
- Excess proportions of specific crash types
- Other

**Are local roads (non-state owned and operated) included or addressed in this program?**

- Yes
- No

If yes, are local road projects identified using the same methodology as state roads?

- Yes
- No

**How are highway safety improvement projects advanced for implementation?**

- Competitive application process
- selection committee
- Other-Districts coordinate with staff for projects and submit to Central Office for approval.

**Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).**

- Relative Weight in Scoring

Rank of Priority Consideration Ranking based on B/C Available funding Incremental B/C Ranking based on net benefit Other A score is provided for each project that includes the following: Benefit Cost Ratio greater than 1, and is on the High Crash Segment List.**What proportion of highway safety improvement program funds address systemic improvements?**

9

**Highway safety improvement program funds are used to address which of the following systemic improvements?** Cable Median Barriers Rumble Strips Traffic Control Device Rehabilitation Pavement/Shoulder Widening Install/Improve Signing Install/Improve Pavement Marking and/or Delineation Upgrade Guard Rails Clear Zone Improvements Safety Edge Install/Improve Lighting Add/Upgrade/Modify/Remove Traffic Signal Other

**What process is used to identify potential countermeasures?** Engineering Study Road Safety Assessment Other:**Identify any program methodology practices used to implement the HSIP that have changed since the last reporting period.** Highway Safety Manual Road Safety audits Systemic Approach Other: Other-None

**Describe any other aspects of the Highway Safety Improvement Program methodology on which you would like to elaborate.**

The Florida Department of Transportation has begun to incorporate the AASHTO Highway Safety Manual into our safety evaluation process. The department has assembled a team to determine ways in which the manual can be incorporated beyond safety into planning, design and other parts of the departments project development and operations procedures.

Additionally, the State Safety Office has begun using the Net Present Value of district submitted projects to assist in determining allocation of HSIP funds.



## Progress in Implementing Projects

### Funds Programmed

Reporting period for Highway Safety Improvement Program funding.

- Calendar Year
- State Fiscal Year
- Federal Fiscal Year

Enter the programmed and obligated funding for each applicable funding category.

Funding Category	Programmed*		Obligated	
<b>HSIP (Section 148)</b>	118944433	99 %	118944433	99 %
<b>HRRRP (SAFETEA-LU)</b>	1208619	1 %	1208619	1 %
<b>HRRR Special Rule</b>				
<b>Penalty Transfer - Section 154</b>				
<b>Penalty Transfer - Section 164</b>				
<b>Incentive Grants - Section 163</b>				
<b>Incentive Grants (Section 406)</b>				
<b>Other Federal-aid Funds (i.e. STP, NHPP)</b>				
<b>State and Local Funds</b>				

<b>Totals</b>	120153052	100%	120153052	100%
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**How much funding is programmed to local (non-state owned and maintained) safety projects?**

\$13,440,598.00

**How much funding is obligated to local safety projects?**

\$13,440,598.00

**How much funding is programmed to non-infrastructure safety projects?**

\$24,271,069.00

**How much funding is obligated to non-infrastructure safety projects?**

\$27,271,069.00

**How much funding was transferred in to the HSIP from other core program areas during the reporting period?**

\$0.00

**How much funding was transferred out of the HSIP to other core program areas during the reporting period?**

\$0.00

**Discuss impediments to obligating Highway Safety Improvement Program funds and plans to overcome this in the future.**

There are no impediments to obligating Highway Safety Improvement Program Funds.

**Describe any other aspects of the general Highway Safety Improvement Program implementation progress on which you would like to elaborate.**

Projects which are included in the project listing (question 23), include those funded with Highway Safety Improvement Program or High Risk Rural Roads Program funds. These projects took place during the 2014 fiscal year (July 1, 2014 through June 30, 2015). Lastly, the project listing is not comprehensive, but represents those projects which were a construction project or significantly advanced the state's safety goals during the reporting period.

**General Listing of Projects**

List each highway safety improvement project obligated during the reporting period.

Project	Improvement Category	Output	HSIP Cost	Total Cost	Funding Category	Functional Classification	AADT	Speed	Roadway Ownership	Relationship to SHSP	
										Emphasis Area	Strategy
<b>190258-1</b>	Non-infrastructure Data/traffic records	1 Numbers	148596 2	931739 9	HSIP (Section 148)		0	0	State Highway Agency	Pedestrians and Bicyclists	
<b>211079-2</b>	Non-infrastructure Road safety audits	1 Numbers	197256	197256	HSIP (Section 148)		0	0	State Highway Agency	Lane Departure	
<b>211079-5</b>	Non-infrastructure Road safety audits	1 Numbers	177764	177764	HSIP (Section 148)		0	0	Other Local Agency	Intersections	
<b>254647-1-53-01</b>	Roadway delineation Roadway delineation - other	1 Numbers	832691	832691	HSIP (Section 148)		0	0	State Highway Agency	Lane Departure	
<b>254677-2</b>	Non-infrastructure Transportation safety planning	1 Numbers	736798 9	750661 5	HSIP (Section 148)		0	0	State Highway Agency	Used for Multiple Engineering Emphasis	

										Areas	
<b>41062</b> <b>5-4</b>	Intersection geometry Intersection geometry - other	3.66104 1 Miles	225512	715589	HSIP (Section 148)	Urban Principal Arterial - Other	28999.947141 6719	45	State Highway Agency	Intersecti ons	
<b>41247</b> <b>3-5</b>	Intersection geometry Intersection geometry - other	0.24840 2 Miles	2501	139790	HSIP (Section 148)	Urban Principal Arterial - Other	32825.264402 058	35	State Highway Agency	Intersecti ons	
<b>41320</b> <b>2-2</b>	Roadway Rumble strips - center	19.3913 14 Miles	190423	190423	HSIP (Section 148)	Rural Major Collector	1404.8982204 0941	55	Other Local Agency	Lane Departur e	
<b>41549</b> <b>5-1</b>	Intersection traffic control Intersection traffic control - other	1 Number s	4964	4964	HSIP (Section 148)		0	0	State Highway Agency	Lane Departur e	
<b>41961</b> <b>5-3</b>	Roadway Rumble strips - edge or shoulder	2.25576 8 Miles	71609	71609	HSIP (Section 148)	Rural Local Road or Street	0	0	Other Local Agency	Lane Departur e	
<b>42261</b> <b>2-2</b>	Intersection traffic control Modify traffic signal timing - left- turn phasing (permissive to	3.76085 3 Miles	125910	149340	HSIP (Section 148)	Urban Principal Arterial - Other	41499.699241 2919	35	State Highway Agency	Intersecti ons	

	protected-only)										
<b>42281 4-1</b>	Non-infrastructure Outreach	1 Number s	603259	116147 0	HSIP (Sectio n 148)		0	0	State Highway Agency	Intersecti ons	
<b>42302 2-1</b>	Shoulder treatments Pave existing shoulders	17.0294 69 Miles	32856	481807	HSIP (Sectio n 148)	Rural Minor Arterial	2321.0001873 8425	45	Other Local Agency	Pedestria ns and Bicyclists	
<b>42308 8-1</b>	Intersection traffic control Modify traffic signal - modernization/replac ement	9.37262 7 Miles	323097	480509 8	HSIP (Sectio n 148)	Urban Minor Arterial	46703.651472 0133	50	State Highway Agency	Intersecti ons	
<b>42489 8-1</b>	Access management Raised island - modify existing	1.87162 6 Miles	874271	343379 6	HSIP (Sectio n 148)	Urban Minor Arterial	37975.488933 1522	45	State Highway Agency	Intersecti ons	
<b>42527 1-2</b>	Access management Raised island - modify existing	1.54 Miles	4444	37014	HSIP (Sectio n 148)		12700	30	State Highway Agency	Intersecti ons	
<b>42527 3-4</b>	Intersection geometry Auxiliary lanes - modify left-turn lane offset	0.02005 1 Miles	274790	284715	HSIP (Sectio n 148)	Urban Principal Arterial - Other	28372.469203 531	40	State Highway Agency	Intersecti ons	
<b>42564 6-2</b>	Roadway delineation Roadway delineation	1 Number	57049	57049	HSIP (Sectio		0	0	Non- Location	Intersecti ons	

	- other	s			n 148)				Specific Project		
<b>42564</b> <b>6-3</b>	Non-infrastructure Educational efforts	1 Number s	33354	33354	HSIP (Sectio n 148)		0	0	Non- Location Specific Project	Lane Departur e	
<b>42569</b> <b>7-1- HRRR</b>	Roadway Roadway widening - travel lanes	4.57 Miles	512236	512236	HRRRP (SAFETE A-LU)	Rural Local Road or Street	0	0	Other Local Agency	Lane Departur e	
<b>42701</b> <b>2-2</b>	Intersection traffic control Intersection traffic control - other	0.15913 8 Miles	620457	637342	HSIP (Sectio n 148)	Urban Principal Arterial - Other	32000.041108 9746	50	State Highway Agency	Intersecti ons	
<b>42715</b> <b>4-1</b>	Intersection traffic control Modify traffic signal - modernization/replacement	0.99242 9 Miles	452000	180240 0	HSIP (Sectio n 148)	Urban Principal Arterial - Other	28120.426096 3234	45	State Highway Agency	Intersecti ons	
<b>42720</b> <b>4-1</b>	Intersection geometry Auxiliary lanes - extend existing left-turn lane	0.36958 4 Miles	109061 2	114181 9	HSIP (Sectio n 148)	Urban Principal Arterial - Other	22349.261880 9256	45	State Highway Agency	Intersecti ons	
<b>42729</b> <b>8-1</b>	Intersection traffic control Modify traffic	0.06034	380608	429472	HSIP (Sectio	Urban Principal	46300.142575	45	State Highway	Intersecti	

	signal - modernization/replacement	7 Miles			n 148)	Arterial - Other	4387		Agency	ons	
<b>427307-1</b>	Intersection traffic control Modify traffic signal - modernization/replacement	0.058336 Miles	370581	385661	HSIP (Section 148)	Urban Principal Arterial - Other	45499.9331801975	45	State Highway Agency	Intersections	
<b>427310-1</b>	Intersection geometry Auxiliary lanes - add left-turn lane	0.311806 Miles	963611	1016150	HSIP (Section 148)	Urban Minor Arterial	7300.00872657999	50	State Highway Agency	Intersections	
<b>427452-1</b>	Intersection traffic control Modify traffic signal - add additional signal heads	2.954501 Miles	2379950	8169599	HSIP (Section 148)	Urban Principal Arterial - Other	27172.9958981229	40	State Highway Agency	Intersections	
<b>427640-1</b>	Pedestrians and bicyclists Install sidewalk	1.203325 Miles	46053	107729	HSIP (Section 148)	Urban Local Road or Street	3545.03398001371	0	Other Local Agency	Pedestrians and Bicyclists	
<b>428054-1</b>	Intersection traffic control Systemic improvements - signal-controlled	0.858244 Miles	1490547	1568300	HSIP (Section 148)	Urban Minor Arterial	29317.5388712301	40	State Highway Agency	Intersections	
<b>428166-1</b>	Shoulder treatments Pave existing	15.917	23940	31745	HSIP (Section 148)	Rural Minor	0	0	Other Local	Lane Departur	



	shoulders	Miles			n 148)	Collector			Agency	e	
<b>42816</b> <b>6-1-</b> <b>HRRR</b>	Shoulder treatments Pave existing shoulders	15.92 Miles	91919	91919	HRRRP (SAFETE A-LU)	Rural Minor Collector	0	0	Other Local Agency	Lane Departur e	
<b>42827</b> <b>3-1</b>	Intersection traffic control Modify traffic signal - modernization/replac ement	0.23641 5 Miles	813440	863417	HSIP (Sectio n 148)	Urban Principal Arterial - Other	51538.705479 7707	45	State Highway Agency	Intersecti ons	
<b>42827</b> <b>4-1</b>	Intersection traffic control Intersection traffic control - other	0.14978 2 Miles	28910	98820	HSIP (Sectio n 148)	Urban Principal Arterial - Other	44999.993971 2382	45	State Highway Agency	Intersecti ons	
<b>42877</b> <b>0-1</b>	Shoulder treatments Pave existing shoulders	1.04 Miles	21550	107091	HSIP (Sectio n 148)	Rural Minor Collector	450.00018368 0339	0	Other Local Agency	Lane Departur e	
<b>42880</b> <b>1-1</b>	Railroad grade crossings Railroad grade crossings - other	0.08211 3 Miles	80000	80000	HSIP (Sectio n 148)	Urban Principal Arterial - Other	23999.990732 2836	35	State Highway Agency	Intersecti ons	
<b>42895</b> <b>2-1</b>	Intersection traffic control Systemic improvements - signal-controlled	2.27055 1 Miles	950661	113014 0	HSIP (Sectio n 148)	Urban Principal Arterial - Other	54660.292707 8053	45	State Highway Agency	Intersecti ons	

<b>42896 2-1</b>	Roadside Barrier-metal	3.06695 6 Miles	893848	385602 4	HSIP (Section 148)	Urban Principal Arterial - Other	52999.999199 206	60	State Highway Agency	Lane Departur e	
<b>42901 4-1</b>	Intersection geometry Auxiliary lanes - add left-turn lane	0.29519 9 Miles	759847	354261 4	HSIP (Section 148)	Urban Principal Arterial - Other	43884.388642 9155	45	State Highway Agency	Intersecti ons	
<b>42902 0-1</b>	Alignment Horizontal curve realignment	0.27011 7 Miles	652098	851744	HSIP (Section 148)	Urban Minor Arterial	44451.749045 7839	40	State Highway Agency	Lane Departur e	
<b>42902 1-1</b>	Intersection geometry Auxiliary lanes - modify left-turn lane offset	0.20646 1 Miles	100967 5	107927 5	HSIP (Section 148)	Urban Principal Arterial - Other	86486.378560 5998	45	State Highway Agency	Intersecti ons	
<b>42904 3-1</b>	Pedestrians and bicyclists Crosswalk	0.27312 3 Miles	232878	420543	HSIP (Section 148)	Urban Principal Arterial - Other	21499.976933 4695	30	State Highway Agency	Pedestria ns and Bicyclists	
<b>42907 3-1</b>	Intersection traffic control Modify traffic signal - modernization/replac ement	2.14890 2 Miles	119753 9	461497 3	HSIP (Section 148)	Urban Principal Arterial - Other	54803.592235 9419	50	State Highway Agency	Intersecti ons	

<b>42913 5-2</b>	Intersection traffic control Modify traffic signal timing - left-turn phasing (permissive to protected-only)	0.12170 8 Miles	432305	456132	HSIP (Section 148)	Urban Principal Arterial - Other Freeways and Expressways	146000.08679 791	55	State Highway Agency	Intersections	
<b>42914 6-2</b>	Intersection traffic control Modify traffic signal - add additional signal heads	0.01902 7 Miles	64596	66811	HSIP (Section 148)	Urban Minor Arterial	15999.842276 7646	40	State Highway Agency	Intersections	
<b>42918 5-1</b>	Intersection geometry Auxiliary lanes - extend existing left-turn lane	1.61796 Miles	898660	420098 7	HSIP (Section 148)	Urban Principal Arterial - Other	38186.973728 4039	45	State Highway Agency	Intersections	
<b>42918 6-2</b>	Intersection geometry Splitter island - remove from one or more approaches	1 Number s	192981	206701	HSIP (Section 148)		53000	45	State Highway Agency	Intersections	
<b>42919 0-2</b>	Intersection geometry Auxiliary lanes - add left-turn lane	0.00129 8 Miles	411924	419516	HSIP (Section 148)	Urban Principal Arterial - Other	51986.130200 3082	40	State Highway Agency	Intersections	
<b>42924</b>	Roadside Barrier-	17.8347 13	119173	184908	HSIP (Section 148)	Rural Principal	8803.8996956	65	State Highway Agency	Lane Departures	

<b>6-1</b>	metal	Miles			n 148)	Arterial - Other	6653		Agency	e	
<b>42924</b> <b>6-2</b>	Shoulder treatments Pave existing shoulders	14.7179 25 Miles	137975 01	161603 11	HSIP (Sectio n 148)	Rural Principal Arterial - Other	8800.0001543 0164	65	State Highway Agency	Lane Departur e	
<b>42949</b> <b>0-1</b>	Lighting Continuous roadway lighting	7.33390 2 Miles	205646 2	208847 6	HSIP (Sectio n 148)	Rural Principal Arterial - Other	9680.4373204 0597	65	State Highway Agency	Lane Departur e	
<b>42949</b> <b>6-1</b>	Intersection traffic control Modify traffic signal - modernization/replac ement	0.05734 6 Miles	418991	441614	HSIP (Sectio n 148)	Urban Principal Arterial - Other	43500.210180 309	45	State Highway Agency	Intersecti ons	
<b>42949</b> <b>8-1</b>	Lighting Continuous roadway lighting	1.44097 8 Miles	102445 8	111199 7	HSIP (Sectio n 148)	Urban Principal Arterial - Other	34995.161232 8571	55	State Highway Agency	Intersecti ons	
<b>42950</b> <b>3-1</b>	Intersection traffic control Modify traffic signal - modernization/replac ement	0.0171 Miles	562607	589562	HSIP (Sectio n 148)	Urban Principal Arterial - Other	45498.707777 7778	45	State Highway Agency	Intersecti ons	

<b>42958 6-1</b>	Roadside Barrier-metal	13.8711 12 Miles	685315	685889	HSIP (Section 148)	Rural Minor Collector	900.00000396 5075	55	Other Local Agency	Lane Departur e	
<b>42960 6-1</b>	Intersection traffic control Modify control - traffic signal to roundabout	0.00199 9 Miles	134557 1	134562 2	HSIP (Section 148)	Rural Major Collector	7599.4552276 1381	55	Other Local Agency	Intersecti ons	
<b>42960 8-1</b>	Roadway Rumble strips - edge or shoulder	7.1 Miles	144055	144483	HSIP (Section 148)	Rural Local Road or Street	0	0	Other Local Agency	Lane Departur e	
<b>42961 1-1</b>	Intersection geometry Intersection geometrics - modify skew angle	0.31007 2 Miles	879940	880068	HSIP (Section 148)	Rural Major Collector	1200.0011255 4503	0	Other Local Agency	Intersecti ons	
<b>42964 8-1</b>	Shoulder treatments Pave existing shoulders	0.98992 8 Miles	591761	591761	HSIP (Section 148)	Urban Local Road or Street	0	40	Other Local Agency	Pedestria ns and Bicyclists	
<b>42965 0-2</b>	Non-infrastructure Road safety audits	1 Number s	300000	310299	HSIP (Section 148)		0	0	Non- Location Specific Project	Pedestria ns and Bicyclists	
<b>42965 2-1</b>	Non-infrastructure	1 Number	300000	302503	HSIP (Section 148)		0	0	Non- Location	Used for Multiple	

	Road safety audits	s			n 148)				Specific Project	Engineeri ng Emphasis Areas	
<b>42966 0-1</b>	Pedestrians and bicyclists Install sidewalk	0.528617 Miles	140206	140206	HSIP (Section 148)	Rural Local Road or Street	0	0	Other Local Agency	Pedestrians and Bicyclists	
<b>42966 1-1</b>	Pedestrians and bicyclists Install sidewalk	0.915147 Miles	204795	205161	HSIP (Section 148)	Rural Minor Arterial	4799.9995126466	45	State Highway Agency	Pedestrians and Bicyclists	
<b>42966 4-1</b>	Pedestrians and bicyclists Install sidewalk	0.311233 Miles	325257	325257	HSIP (Section 148)	Rural Minor Collector	1999.99707935855	40	Other Local Agency	Pedestrians and Bicyclists	
<b>42967 2-2-HRRR</b>	Shoulder treatments Pave existing shoulders	6.51 Miles	405497	405497	HRRRP (SAFETE A-LU)	Rural Minor Collector	0	0	Other Local Agency	Lane Departure	
<b>42967 4-2</b>	Shoulder treatments Pave existing shoulders	9.065969 Miles	1902775	1902775	HSIP (Section 148)	Rural Minor Collector	304.611471426827	0	Other Local Agency	Lane Departure	
<b>42968 4-1-HRRR</b>	Roadway Roadway widening - travel lanes	3.99 Miles	93212	93212	HRRRP (SAFETE A-LU)	Rural Minor Collector	0	0	Other Local Agency	Lane Departure	
<b>42969</b>	Roadside Barrier-	2.28496	190647	221410	HSIP	Rural	19669.397927	70	State	Lane	

4-1	metal	1 Miles	8	5	(Section 148)	Principal Arterial - Interstate	1419		Highway Agency	Departure	
42969 6-1	Lighting Continuous roadway lighting	0.81273 4 Miles	227682	274151	HSIP (Section 148)	Rural Principal Arterial - Interstate	49068.087523 101	70	State Highway Agency	Lane Departure	
42973 9-1	Intersection traffic control Modify control - remove right-turn yield	0.38048 1 Miles	215113 2	223938 3	HSIP (Section 148)	Urban Minor Arterial	16828.409174 1769	35	State Highway Agency	Intersections	
42974 9-2	Pedestrians and bicyclists Install sidewalk	3.25 Miles	5752	46035	HSIP (Section 148)	Rural Local Road or Street	0	0	Other Local Agency	Pedestrians and Bicyclists	
42975 0-1	Roadway delineation Roadway delineation - other	99.0208 11 Miles	902605	922916	HSIP (Section 148)	Rural Major Collector	1743.3127903 9077	55	Other Local Agency	Pedestrians and Bicyclists	
42975 1-1	Intersection geometry Auxiliary lanes - extend existing left-turn lane	1.07690 8 Miles	221751 8	232292 8	HSIP (Section 148)	Urban Principal Arterial - Interstate	51897.972890 9062	65	State Highway Agency	Intersections	
42975 1-2	Intersection geometry Auxiliary lanes - extend existing left-	0.68137 3 Miles	370455 5	385689 7	HSIP (Section 148)	Urban Principal Arterial -	104539.53348 7532	65	State Highway Agency	Intersections	

	turn lane				n 148)	Interstate			Agency		
<b>42975 2-2</b>	Pedestrians and bicyclists Install sidewalk	0.54959 4 Miles	113854	174141	HSIP (Section 148)	Urban Minor Arterial	5899.9953329 1848	45	State Highway Agency	Pedestrians and Bicyclists	
<b>42975 2-3</b>	Pedestrians and bicyclists Install sidewalk	2.11633 2 Miles	115025 7	176261 7	HSIP (Section 148)	Urban Minor Arterial	11051.357090 0029	55	State Highway Agency	Pedestrians and Bicyclists	
<b>42975 2-4</b>	Pedestrians and bicyclists Install sidewalk	0.34977 9 Miles	151535	187356	HSIP (Section 148)	Urban Minor Arterial	14600.019620 9607	55	State Highway Agency	Pedestrians and Bicyclists	
<b>42975 2-5</b>	Pedestrians and bicyclists Install sidewalk	0.36775 6 Miles	192804	326436	HSIP (Section 148)	Urban Minor Arterial	7930.5650893 5272	45	State Highway Agency	Pedestrians and Bicyclists	
<b>42975 2-6</b>	Pedestrians and bicyclists Install sidewalk	0.92001 7 Miles	288938	305177	HSIP (Section 148)	Urban Principal Arterial - Other	28000.004222 7481	55	State Highway Agency	Pedestrians and Bicyclists	
<b>42975 2-7</b>	Pedestrians and bicyclists Install sidewalk	1.91567 2 Miles	501714	544007	HSIP (Section 148)	Urban Principal Arterial - Other	43335.278016 8004	45	State Highway Agency	Pedestrians and Bicyclists	
<b>43060 2-2</b>	Lighting Continuous roadway lighting	0.66256 4 Miles	463464	121798 4	HSIP (Section 148)	Urban Principal Arterial -	51000.034328 7592	40	State Highway Agency	Pedestrians and Bicyclists	



						Other					
<b>43066</b> <b>5-1</b>	Shoulder treatments Pave existing shoulders	3.02122 2 Miles	275334	303303	HSIP (Section 148)	Urban Principal Arterial - Other	38639.024946 1973	55	State Highway Agency	Lane Departur e	
<b>43066</b> <b>5-2</b>	Shoulder treatments Pave existing shoulders	3.86939 1 Miles	410225	453352	HSIP (Section 148)	Rural Principal Arterial - Other	28657.888279 8353	55	State Highway Agency	Lane Departur e	
<b>43067</b> <b>2-1</b>	Pedestrians and bicyclists Install sidewalk	5.51621 1 Miles	154348	206452	HSIP (Section 148)	Urban Principal Arterial - Other	27405.424571 3226	55	State Highway Agency	Pedestria ns and Bicyclists	
<b>43076</b> <b>1-1</b>	Intersection geometry Auxiliary lanes - add right-turn lane	0.41734 7 Miles	230400	276103	HSIP (Section 148)	Urban Principal Arterial - Other	35999.968553 7454	45	State Highway Agency	Intersecti ons	
<b>43079</b> <b>5-1</b>	Roadside Barrier- metal	3.32809 7 Miles	173053	208158 4	HSIP (Section 148)		5885.4045777 5119	0	State Highway Agency	Lane Departur e	
<b>43079</b> <b>8-1</b>	Intersection geometry Auxiliary lanes - add left-turn lane	0.15192 Miles	516629	553126	HSIP (Section 148)	Urban Principal Arterial - Other	58689.869214 06	45	State Highway Agency	Intersecti ons	

<b>43079 9-1</b>	Lighting Continuous roadway lighting	0.24591 6 Miles	458302	465120	HSIP (Section 148)	Urban Principal Arterial - Other	31999.982339 498	45	State Highway Agency	Intersecti ons	
<b>43080 1-1</b>	Intersection traffic control Modify traffic signal - modernization/replacement	0.31963 4 Miles	723556	758992	HSIP (Section 148)	Urban Principal Arterial - Other	51719.026602 3014	45	State Highway Agency	Intersecti ons	
<b>43085 2-1</b>	Non-infrastructure Road safety audits	1 Number s	125772	125772	HSIP (Section 148)		0	0	Non- Location Specific Project	Intersecti ons	
<b>43085 6-1</b>	Intersection traffic control Modify traffic signal timing - left-turn phasing (permissive to protected-only)	0.03107 4 Miles	340565	387057	HSIP (Section 148)	Urban Principal Arterial - Other	55290.376649 2888	45	State Highway Agency	Intersecti ons	
<b>43085 8-1</b>	Intersection geometry Auxiliary lanes - add left-turn lane	0.12021 9 Miles	468419	505711	HSIP (Section 148)	Urban Principal Arterial - Other	34166.729327 311	40	State Highway Agency	Intersecti ons	
<b>43085 9-1</b>	Pedestrians and bicyclists Medians and pedestrian refuge	1.27896 8 Miles	558661	587140	HSIP (Section 148)	Urban Minor	32596.062304 139	40	State Highway Agency	Pedestria ns and	

	areas				n 148)	Arterial			Agency	Bicyclists	
<b>43086 0-1</b>	Access management Raised island - modify existing	0.38810 2 Miles	758442	815065	HSIP (Sectio n 148)	Urban Principal Arterial - Other	31852.524539 9405	40	State Highway Agency	Intersecti ons	
<b>43086 3-1</b>	Intersection traffic control Modify control - remove right-turn yield	0.19862 4 Miles	831971	871019	HSIP (Sectio n 148)	Urban Minor Arterial	33128.811342 0332	45	State Highway Agency	Intersecti ons	
<b>43086 4-1</b>	Intersection traffic control Modify control - remove right-turn yield	0.06596 7 Miles	707596	726357	HSIP (Sectio n 148)	Urban Principal Arterial - Other	47550.389118 8018	45	State Highway Agency	Intersecti ons	
<b>43086 6-1</b>	Pedestrians and bicyclists Medians and pedestrian refuge areas	2.39890 9 Miles	333464	354358	HSIP (Sectio n 148)	Urban Principal Arterial - Other	45341.284668 9891	45	State Highway Agency	Pedestria ns and Bicyclists	
<b>43089 6-1</b>	Pedestrians and bicyclists Install sidewalk	3.47348 6 Miles	6636	52204	HSIP (Sectio n 148)	Rural Principal Arterial - Other	29311.927574 7765	55	State Highway Agency	Pedestria ns and Bicyclists	
<b>43092 9-1</b>	Intersection geometry Auxiliary lanes - add right-turn lane	0.12602 1 Miles	261949	287540	HSIP (Sectio n 148)	Rural Minor Arterial	4295.2267796 6371	60	State Highway Agency	Intersecti ons	

<b>430930-1</b>	Intersection geometry Auxiliary lanes - add left-turn lane	0.33510 1 Miles	695851	718815	HSIP (Section 148)	Rural Minor Arterial	3513.8865625 5875	60	State Highway Agency	Intersections	
<b>430942-1</b>	Roadway Rumble strips - edge or shoulder	24.009 Miles	477499	519768	HSIP (Section 148)		25000	45	State Highway Agency	Lane Departure	
<b>430942-2</b>	Roadway Rumble strips - edge or shoulder	8.95 Miles	163545	177173	HSIP (Section 148)		25000	55	State Highway Agency	Lane Departure	
<b>430986-1</b>	Intersection geometry Auxiliary lanes - add left-turn lane	0.33461 7 Miles	331409	392474	HSIP (Section 148)	Urban Principal Arterial - Other	9800.0093001 8499	55	State Highway Agency	Intersections	
<b>431122-1</b>	Intersection geometry Auxiliary lanes - add left-turn lane	0.62986 6 Miles	964058	997602	HSIP (Section 148)	Urban Minor Arterial	7800.0017225 8861	60	State Highway Agency	Intersections	
<b>431196-1</b>	Intersection geometry Auxiliary lanes - add left-turn lane	0.13478 Miles	139485	139485	HSIP (Section 148)	Urban Major Collector	11799.999272 8892	40	Other Local Agency	Intersections	
<b>431243-1</b>	Intersection traffic control Intersection traffic control - other	5.60915 9 Miles	168177 9	136520 46	HSIP (Section 148)	Urban Principal Arterial - Other	27230.927727 8465	55	State Highway Agency	Intersections	
<b>43143</b>	Roadway Rumble	5.35121	95582	95582	HSIP	Rural	0	0	Other	Lane	

<b>0-1</b>	strips - edge or shoulder	9 Miles			(Section 148)	Local Road or Street			Local Agency	Departure	
<b>43143</b> <b>0-1-HRRR</b>	Roadway Rumble strips - edge or shoulder	5.37 Miles	17237	17237	HRRRP (SAFETE A-LU)	Rural Local Road or Street	0	0	Other Local Agency	Lane Departure	
<b>43163</b> <b>5-1</b>	Non-infrastructure Transportation safety planning	1 Numbers	1482648	1629042	HSIP (Section 148)		0	0	State Highway Agency	Lane Departure	
<b>43175</b> <b>1-1</b>	Non-infrastructure Educational efforts	1 Numbers	83605	83605	HSIP (Section 148)		0	0	Non-Location Specific Project	Pedestrians and Bicyclists	
<b>43182</b> <b>0-2</b>	Non-infrastructure Transportation safety planning	1 Numbers	526803	528601	HSIP (Section 148)		0	0	State Highway Agency	Pedestrians and Bicyclists	
<b>43254</b> <b>9-1</b>	Roadway Pavement surface - high friction surface	0.435028 Miles	1803956	1846680	HSIP (Section 148)	Urban Principal Arterial - Interstate	216000.183588183	65	State Highway Agency	Lane Departure	
<b>43275</b> <b>3-1</b>	Access management Raised island - modify existing	0.246435 Miles	345640	372184	HSIP (Section 148)	Urban Principal Arterial -	43000.066987238	45	State Highway Agency	Intersections	

						Other					
<b>43306 1-1</b>	Intersection geometry Auxiliary lanes - add left-turn lane	0.20483 4 Miles	553731	761995	HSIP (Section 148)	Urban Minor Arterial	13300.013855 1217	35	Other Local Agency	Intersecti ons	
<b>43306 5-1</b>	Lighting Continuous roadway lighting	7.95377 8 Miles	698000	698047	HSIP (Section 148)	Urban Principal Arterial - Other	46796.599024 8911	55	State Highway Agency	Intersecti ons	
<b>43310 7-1</b>	Intersection traffic control Systemic improvements - signal-controlled	1 Miles	207065	207065	HSIP (Section 148)	Rural Local Road or Street	0	0	Other Local Agency	Pedestria ns and Bicyclists	
<b>43314 4-1</b>	Non-infrastructure Educational efforts	1 Number s	472000 0	472000 0	HSIP (Section 148)		0	0	State Highway Agency	Pedestria ns and Bicyclists	
<b>43336 0-1</b>	Intersection geometry Auxiliary lanes - add left-turn lane	0.20020 6 Miles	300447	308409	HSIP (Section 148)	Rural Principal Arterial - Other	15399.963432 6644	65	State Highway Agency	Intersecti ons	
<b>43337 7-1</b>	Roadway delineation Roadway delineation - other	1 Number s	97159	97159	HSIP (Section 148)		0	0	State Highway Agency	Pedestria ns and Bicyclists	
<b>43343 6-1</b>	Intersection geometry Auxiliary lanes - add	0.18973 7 Miles	800000	800000	HSIP (Section 148)	Urban Minor	3800.0047275 9662	35	Other Local	Intersecti ons	

	right-turn lane				n 148)	Arterial			Agency		
<b>43343</b> <b>7-1</b>	Intersection traffic control Intersection traffic control - other	0.03795 6 Miles	241500	241564	HSIP (Section 148)	Urban Major Collector	6799.9844029 9294	45	Other Local Agency	Intersecti ons	
<b>43343</b> <b>8-1</b>	Shoulder treatments Pave existing shoulders	1.01844 7 Miles	290400	290449	HSIP (Section 148)		5000.0019549 3727	55	Other Local Agency	Lane Departur e	
<b>43351</b> <b>9-3</b>	Intersection traffic control Systemic improvements - signal-controlled	1 Number s	396898 6	396898 6	HSIP (Section 148)		0	0	State Highway Agency	Intersecti ons	
<b>43352</b> <b>2-1</b>	Non-infrastructure Data/traffic records	1 Number s	628000	628000	HSIP (Section 148)		0	0	State Highway Agency	Intersecti ons	
<b>43378</b> <b>6-1</b>	Access management Change in access - close or restrict existing access	0.29783 7 Miles	620208	620325	HSIP (Section 148)	Urban Major Collector	28499.953427 5459	30	Other Local Agency	Intersecti ons	
<b>43378</b> <b>7-1</b>	Intersection geometry Auxiliary lanes - add right-turn lane	0.22662 8 Miles	269700	269817	HSIP (Section 148)	Urban Minor Arterial	17500.007060 0279	40	Other Local Agency	Intersecti ons	
<b>43430</b> <b>7-1</b>	Access management Change in access - close or restrict	0.14997 1 Miles	129000	129000	HSIP (Section 148)	Urban Local Road or	0	0	Other Local Agency	Intersecti ons	

	existing access					Street					
<b>43477 9-1</b>	Non-infrastructure Road safety audits	1 Number s	77415	77415	HSIP (Section 148)		0	0	State Highway Agency	Used for Multiple Engineering Emphasis Areas	
<b>43610 4-1</b>	Pedestrians and bicyclists Miscellaneous pedestrians and bicyclists	1.6 Miles	148847	148847	HSIP (Section 148)	Urban Minor Arterial	30500	30	State Highway Agency	Intersections	
<b>43610 5-1</b>	Pedestrians and bicyclists Pedestrian warning signs - add/modify flashers	1 Number s	66731	66731	HSIP (Section 148)	Urban Minor Arterial	9700	35	State Highway Agency	Pedestrians and Bicyclists	
<b>43610 6-1</b>	Pedestrians and bicyclists Pedestrian warning signs - add/modify flashers	1 Number s	60174	60174	HSIP (Section 148)	Urban Minor Arterial	6500	50	State Highway Agency	Pedestrians and Bicyclists	
<b>43610 7-1</b>	Pedestrians and bicyclists Install sidewalk	1.38114 6 Miles	950193	950193	HSIP (Section 148)	Urban Principal Arterial - Other Freeways and	33885.684367 1849	55	State Highway Agency	Pedestrians and Bicyclists	



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						Expresswa ys					

## Progress in Achieving Safety Performance Targets

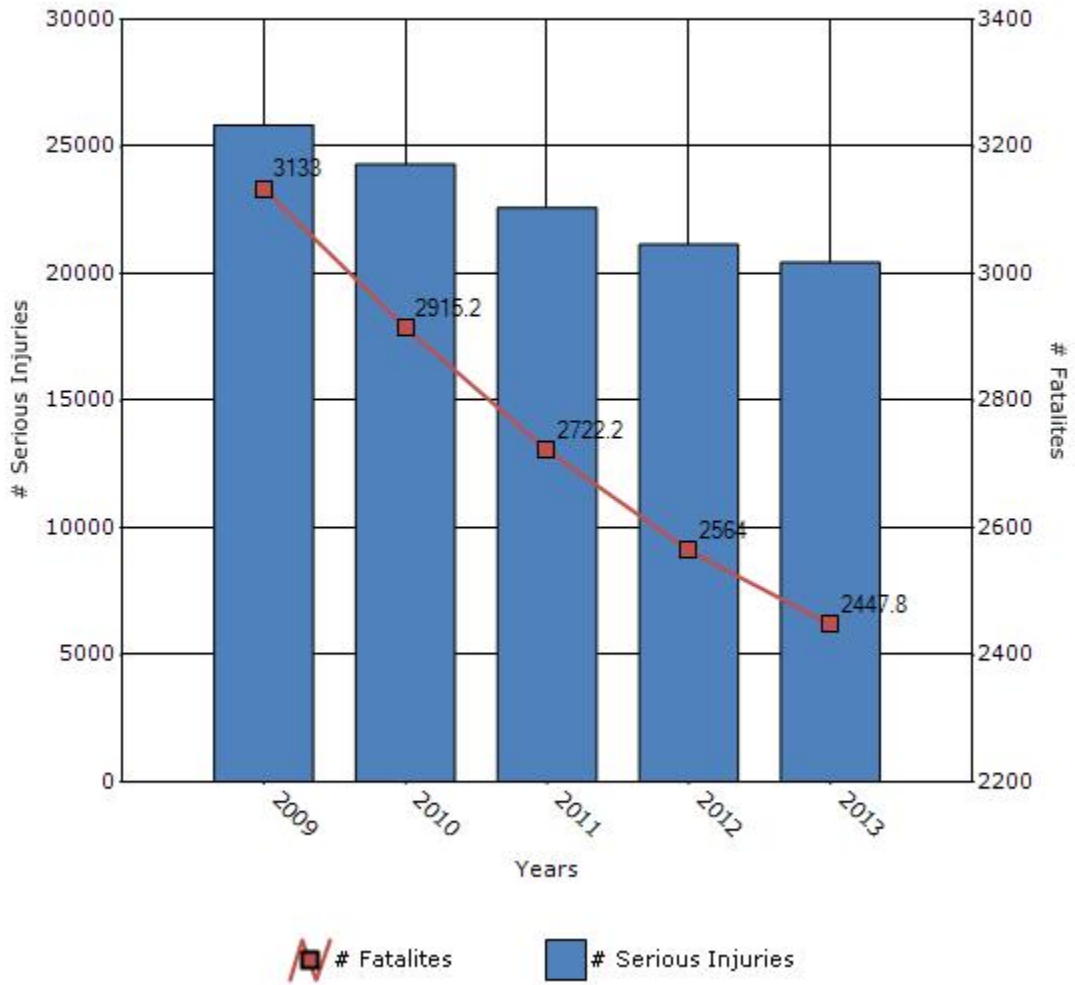
### Overview of General Safety Trends

Present data showing the general highway safety trends in the state for the past five years.

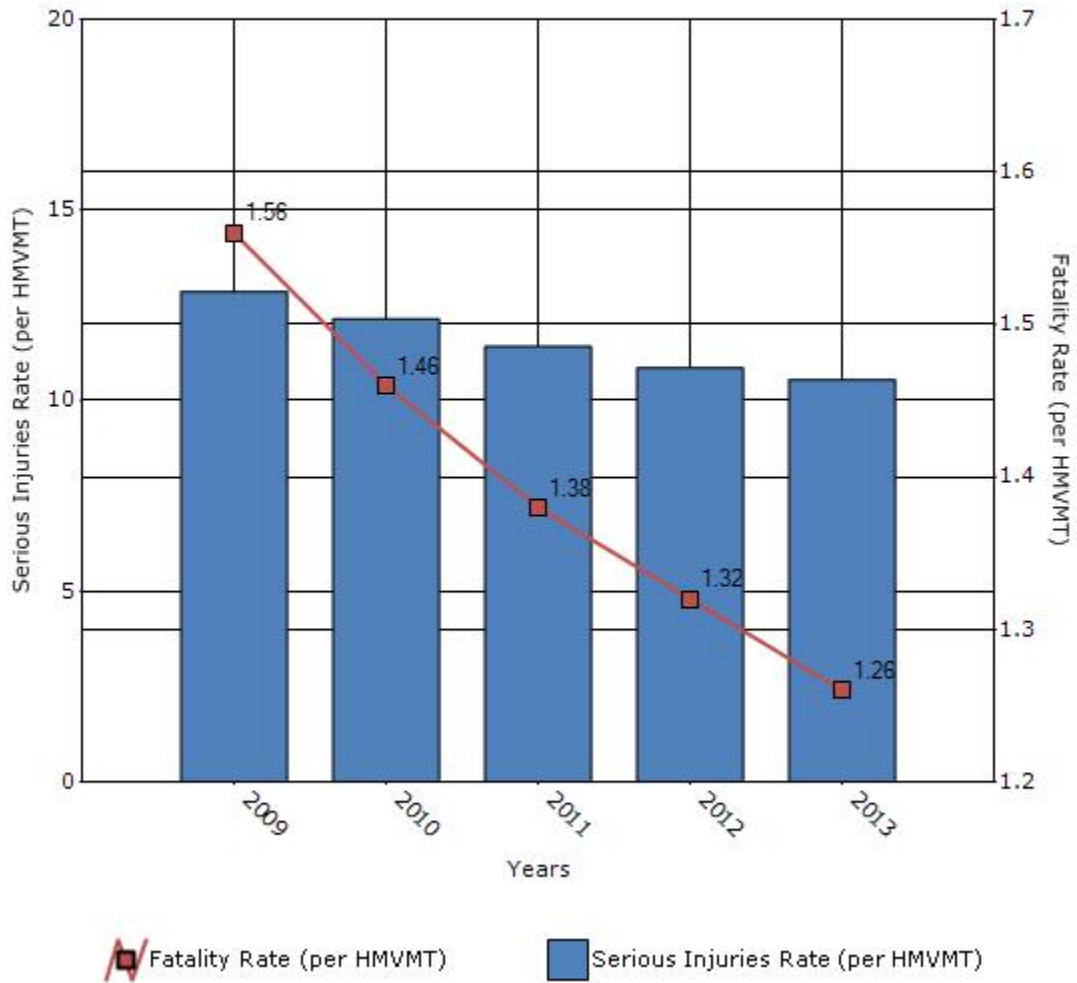
Performance Measures*	2009	2010	2011	2012	2013
<b>Number of fatalities</b>	3133	2915.2	2722.2	2564	2447.8
<b>Number of serious injuries</b>	25846	24296.2	22585.2	21145	20437.8
<b>Fatality rate (per HMVMT)</b>	1.56	1.46	1.38	1.32	1.26
<b>Serious injury rate (per HMVMT)</b>	12.86	12.14	11.42	10.86	10.55

\*Performance measure data is presented using a five-year rolling average.

### Number of Fatalities and Serious injuries for the Last Five Years



### Rate of Fatalities and Serious injuries for the Last Five Years



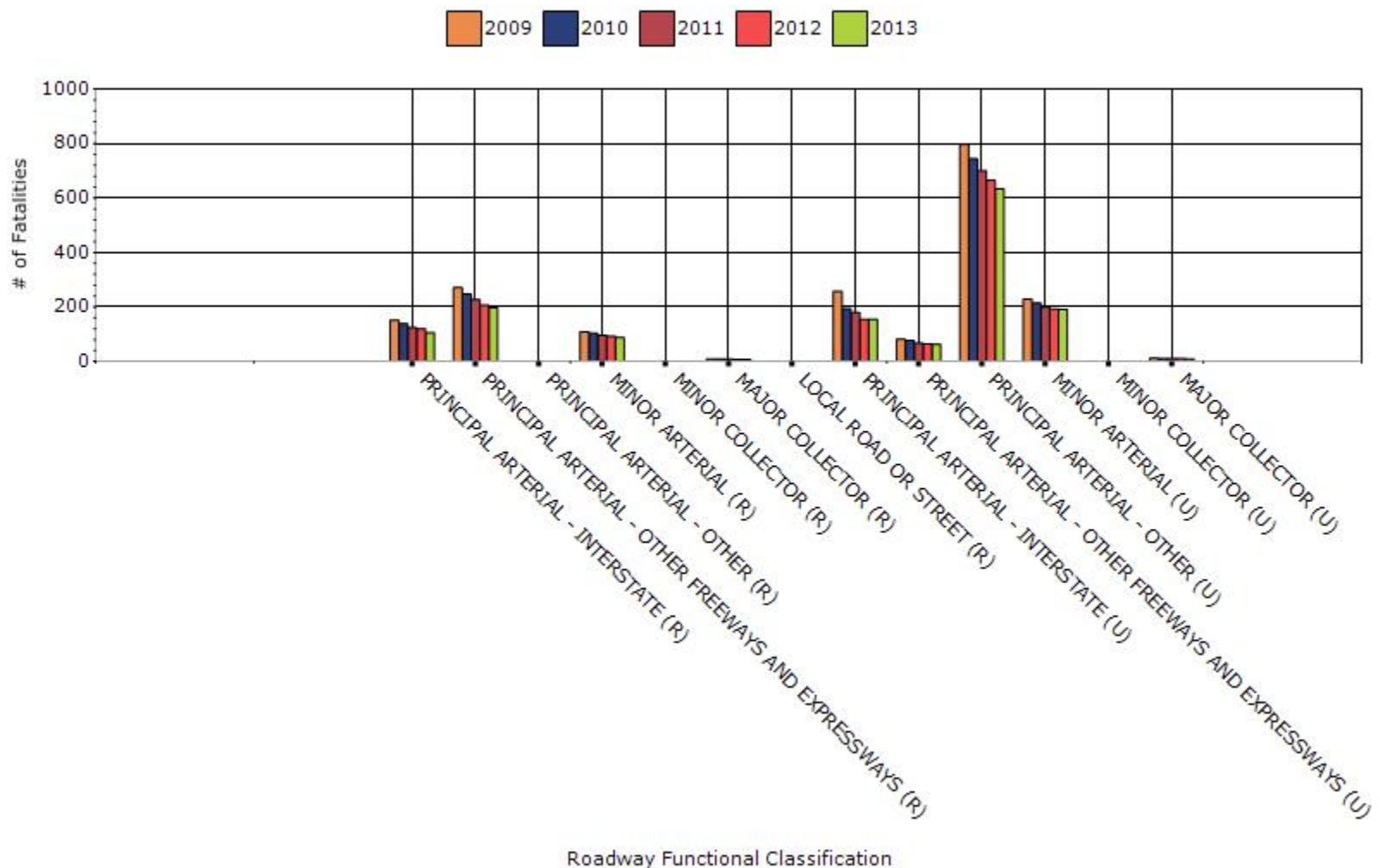
To the maximum extent possible, present performance measure\* data by functional classification and ownership.

### Year - 2013

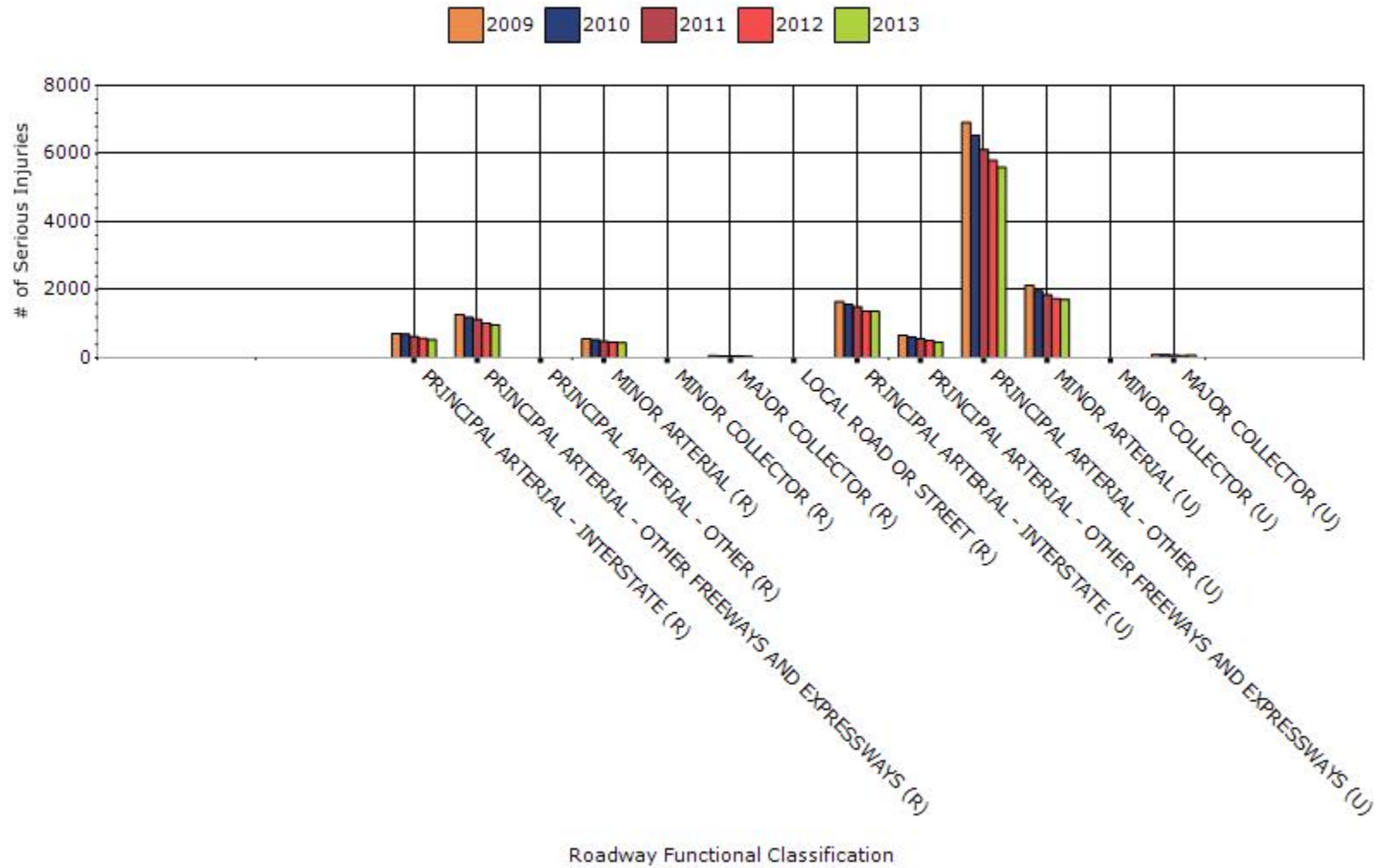
Function Classification	Number of fatalities	Number of serious injuries	Fatality rate (per HMVMT)	Serious injury rate (per HMVMT)
RURAL PRINCIPAL ARTERIAL - INTERSTATE	105.8	542.6	1.12	5.72
RURAL PRINCIPAL ARTERIAL - OTHER FREEWAYS AND EXPRESSWAYS	196.2	972.4	2.01	9.97
RURAL PRINCIPAL ARTERIAL - OTHER	0	0	0	0
RURAL MINOR ARTERIAL	87.4	446.2	2.68	13.69
RURAL MINOR COLLECTOR	0	0	0	0
RURAL MAJOR COLLECTOR	7.2	46.6	0.96	6.17
RURAL LOCAL ROAD OR STREET	0	0	0	0
URBAN PRINCIPAL	155	1369.8	0.62	5.44

<b>ARTERIAL - INTERSTATE</b>				
<b>URBAN PRINCIPAL ARTERIAL - OTHER FREEWAYS AND EXPRESSWAYS</b>	62.6	465.2	0.54	3.98
<b>URBAN PRINCIPAL ARTERIAL - OTHER</b>	633.4	5601	1.81	16.03
<b>URBAN MINOR ARTERIAL</b>	190.6	1719.2	1.48	13.36
<b>URBAN MINOR COLLECTOR</b>	0	0	0	0
<b>URBAN MAJOR COLLECTOR</b>	8.6	81.4	0.36	3.56

### # Fatalities by Roadway Functional Classification

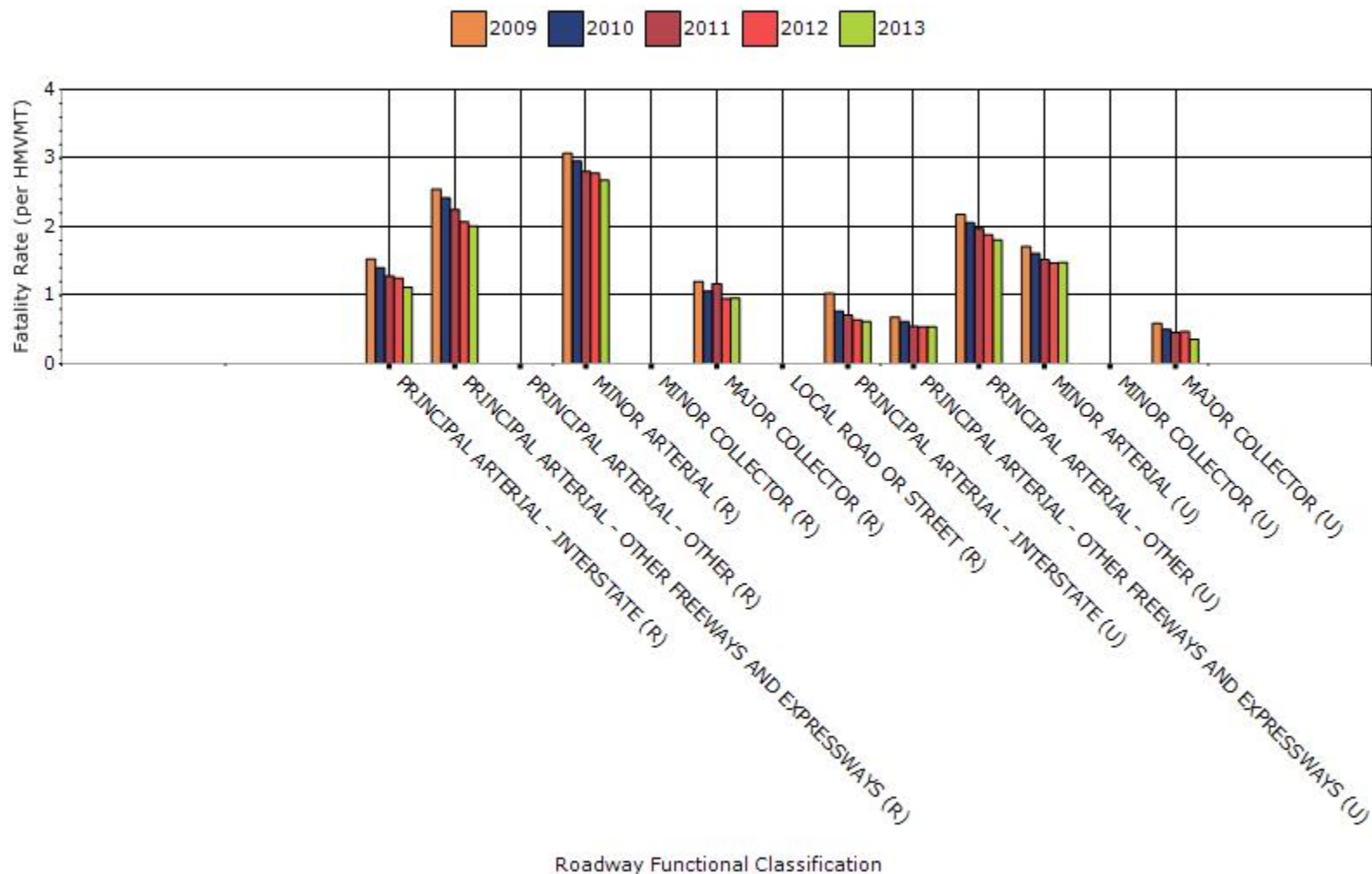


### # Serious Injuries by Roadway Functional Classification

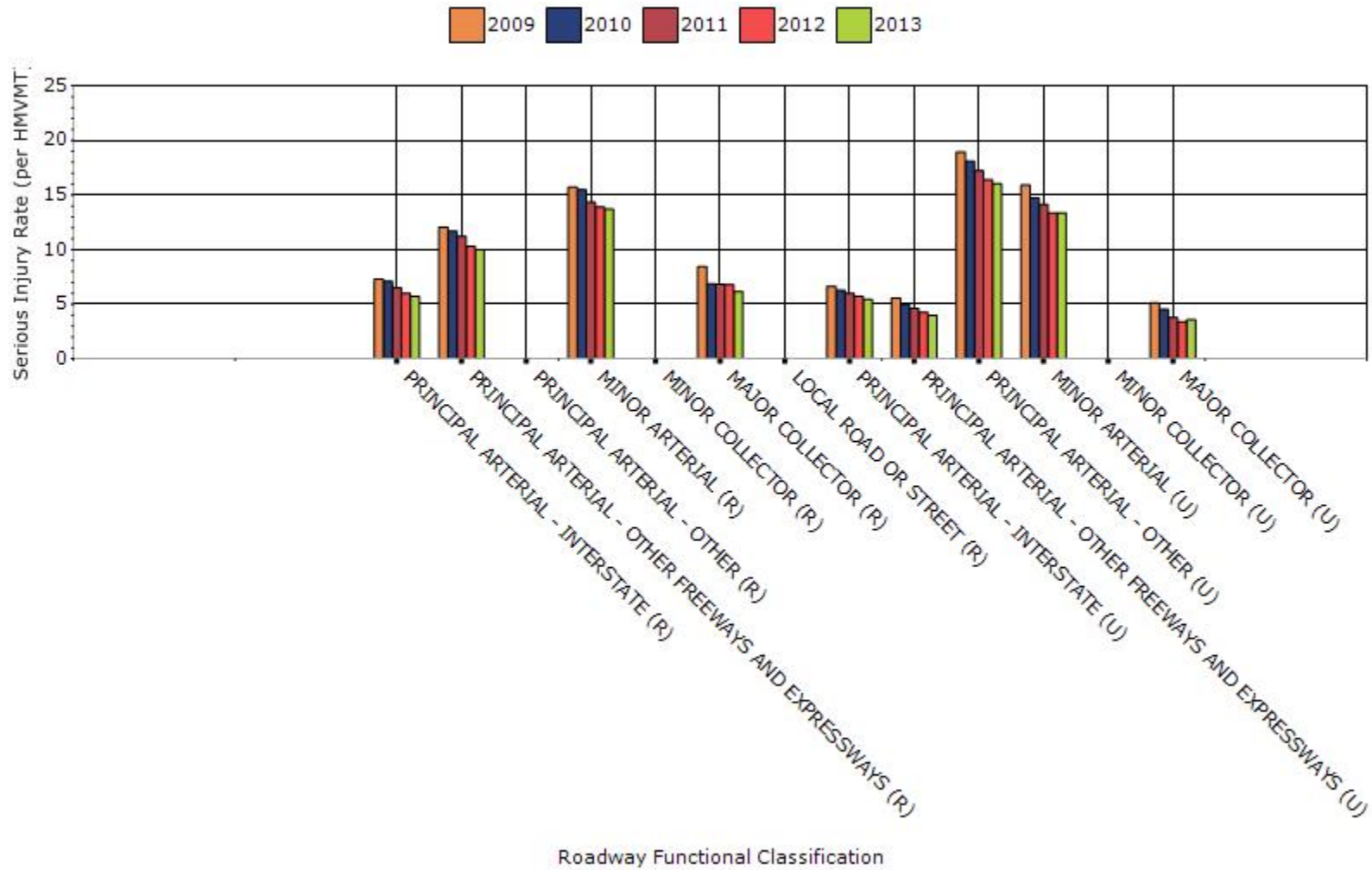




### Fatality Rate by Roadway Functional Classification



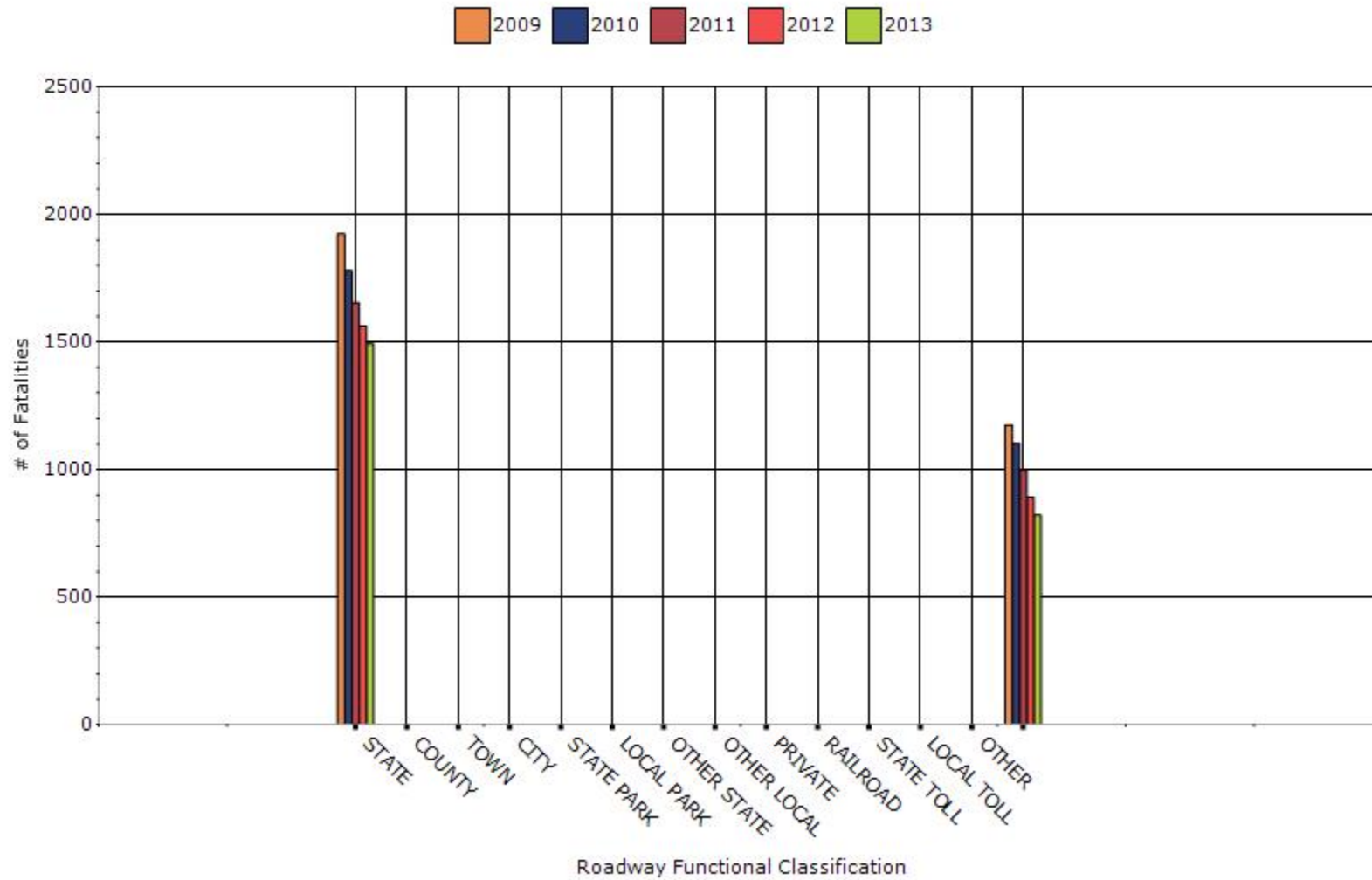
### Serious Injury Rate by Roadway Functional Classification



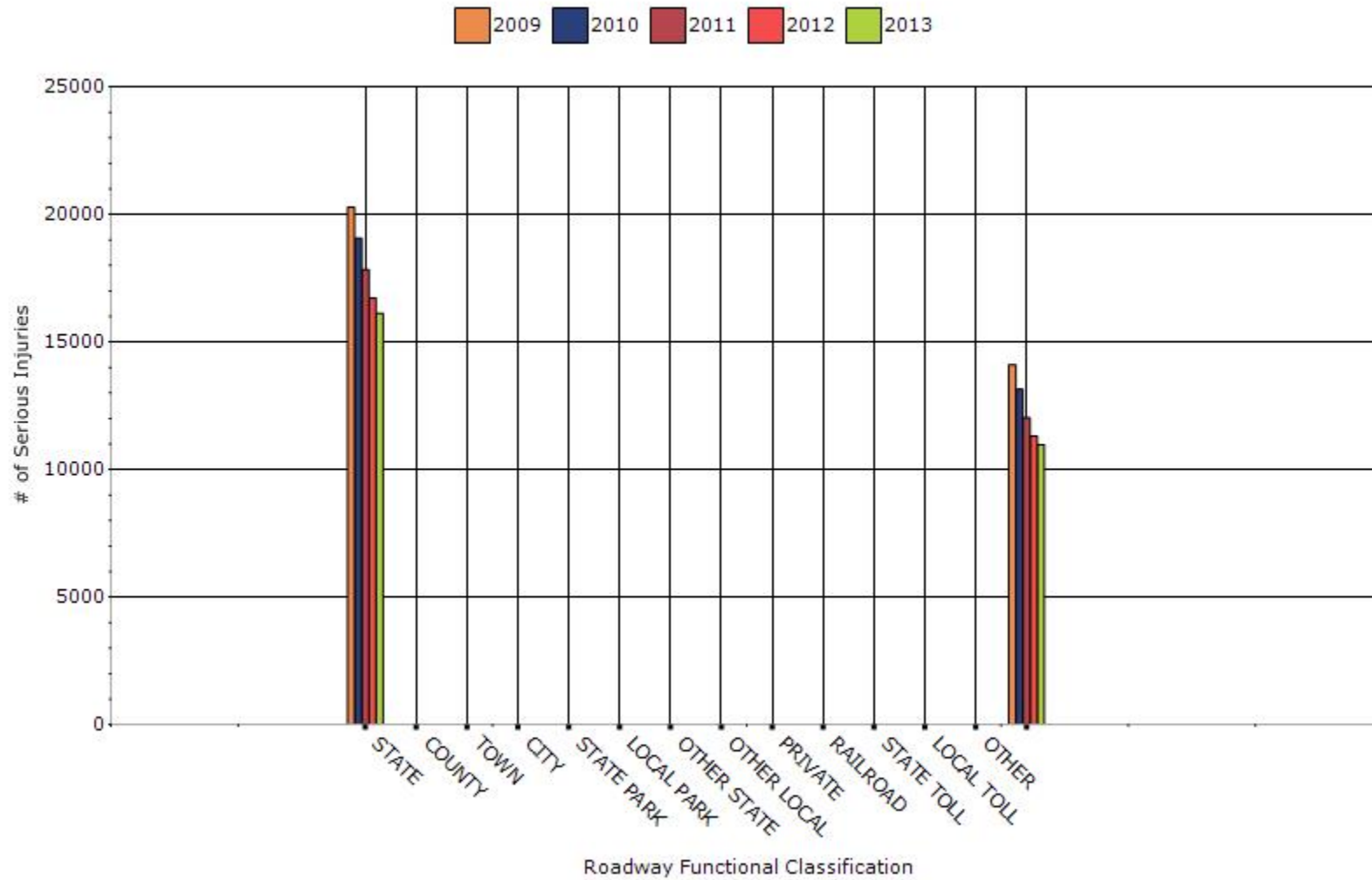
## Year - 2013

Roadway Ownership	Number of fatalities	Number of serious injuries	Fatality rate (per HMVMT)	Serious injury rate (per HMVMT)
STATE HIGHWAY AGENCY	1493	16113	1.43	15.41
COUNTY HIGHWAY AGENCY	0	0	0	0
TOWN OR TOWNSHIP HIGHWAY AGENCY	0	0	0	0
CITY OF MUNICIPAL HIGHWAY AGENCY	0	0	0	0
STATE PARK, FOREST, OR RESERVATION AGENCY	0	0	0	0
LOCAL PARK, FOREST OR RESERVATION AGENCY	0	0	0	0
OTHER STATE AGENCY	0	0	0	0
OTHER LOCAL AGENCY	0	0	0	0
PRIVATE (OTHER THAN RAILROAD)	0	0	0	0
RAILROAD	0	0	0	0
STATE TOLL AUTHORITY	0	0	0	0
LOCAL TOLL AUTHORITY	0	0	0	0
OTHER PUBLIC INSTRUMENTALITY (E.G. AIRPORT, SCHOOL, UNIVERSITY)	0	0	0	0
LOCAL ROADS	821.4	10972.4	0.92	12.33

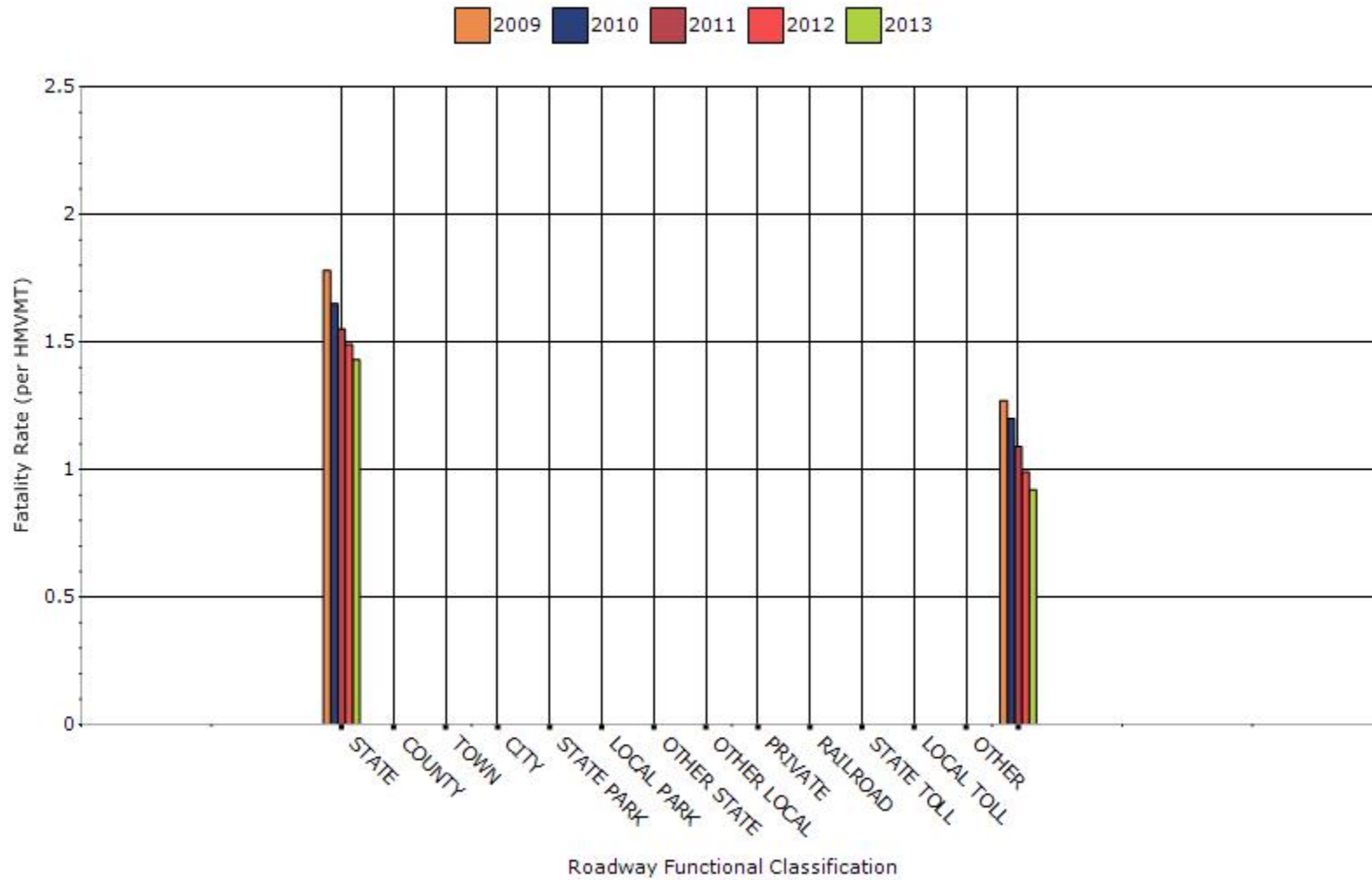
### Number of Fatalities by Roadway Ownership



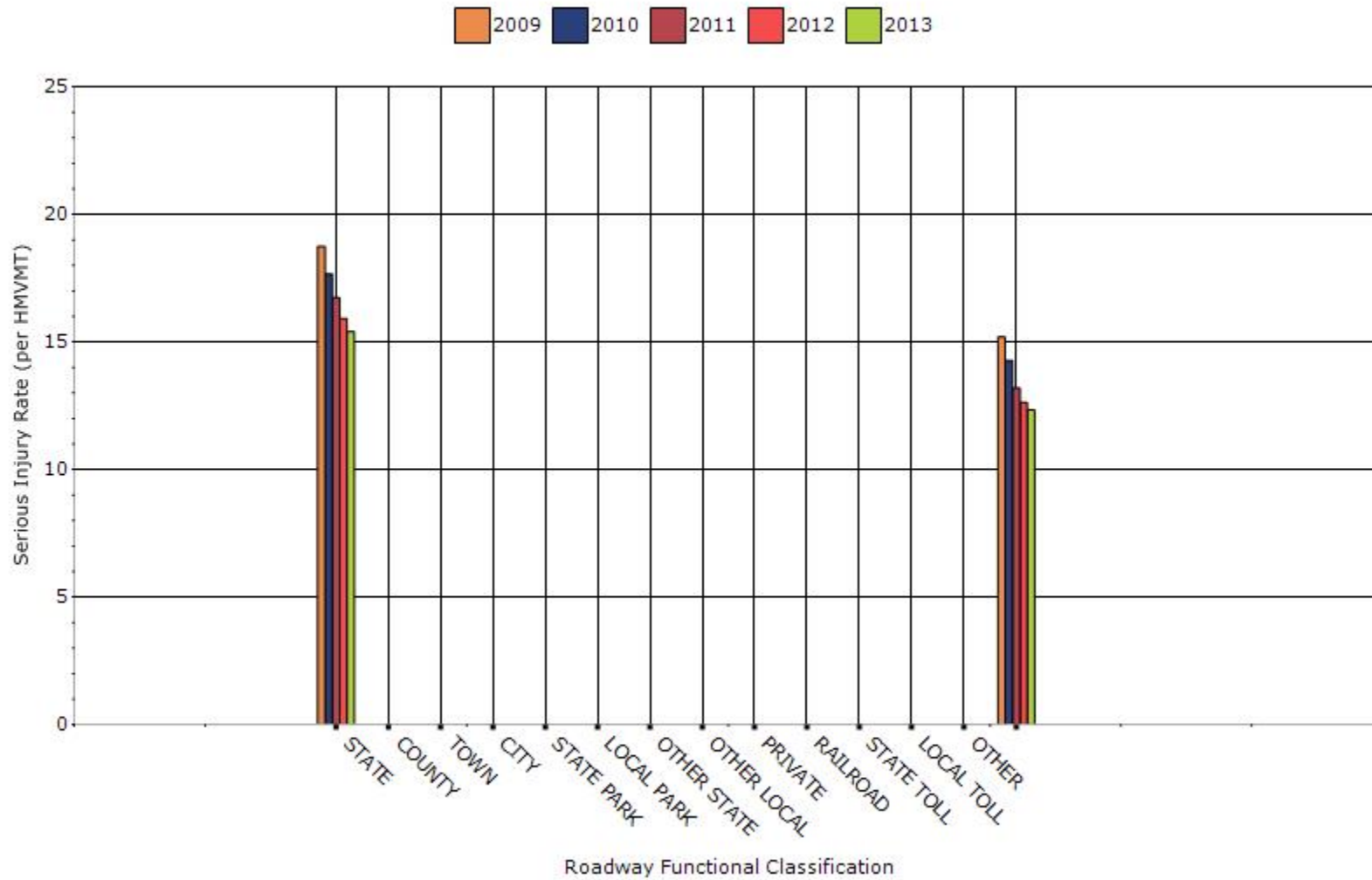
### Number of Serious Injuries by Roadway Ownership



### Fatality Rate by Roadway Ownership



### Serious Injury Rate by Roadway Ownership



**Describe any other aspects of the general highway safety trends on which you would like to elaborate.**

There are no general highway safety trends on which we would like to elaborate at this time.

### Application of Special Rules

**Present the rate of traffic fatalities and serious injuries per capita for drivers and pedestrians over the age of 65.**

Older Driver Performance Measures	2009	2010	2011	2012	2013
Fatality rate (per capita)	2.168	2.08	2.008	1.968	1.96
Serious injury rate (per capita)	11.02	10.57	10.17	10.098	9.954
Fatality and serious injury rate (per capita)	13.188	12.652	12.18	12.07	11.918

\*Performance measure data is presented using a five-year rolling average.

Year	Count of Seriously Injured Drivers and Pedestrians (SI)	Count of Fatally Injured Drivers and Pedestrians (F)	Combined F and SI	Population Figure
2005	2019	426	2445	166
2006	2003	385	2388	168
2007	1745	353	2098	170
2008	1775	336	2111	174
2009	1827	340	2167	173
2010	1725	371	2096	174
2011	1746	340	2086	176
2012	1802	343	2145	182



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2013	1764	351	2115	186
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Calculation / Methods of deriving the values entered for Fatality and Serious Injury Rate (per capita)

Yearly Crash Rate = Combined F and SI for given year / Population Figure

5 Year Average Crash Rate = 5 Yearly Crash Rates / 5

Example, 2013 5-Year Average Crash Rate:

2009: 2167 / 173 = 12.53

2010: 2096 / 174 = 12.05

2011: 2086 / 176 = 11.85

2012: 2145 / 182 = 11.79

2013: 2115 / 186 = 11.37

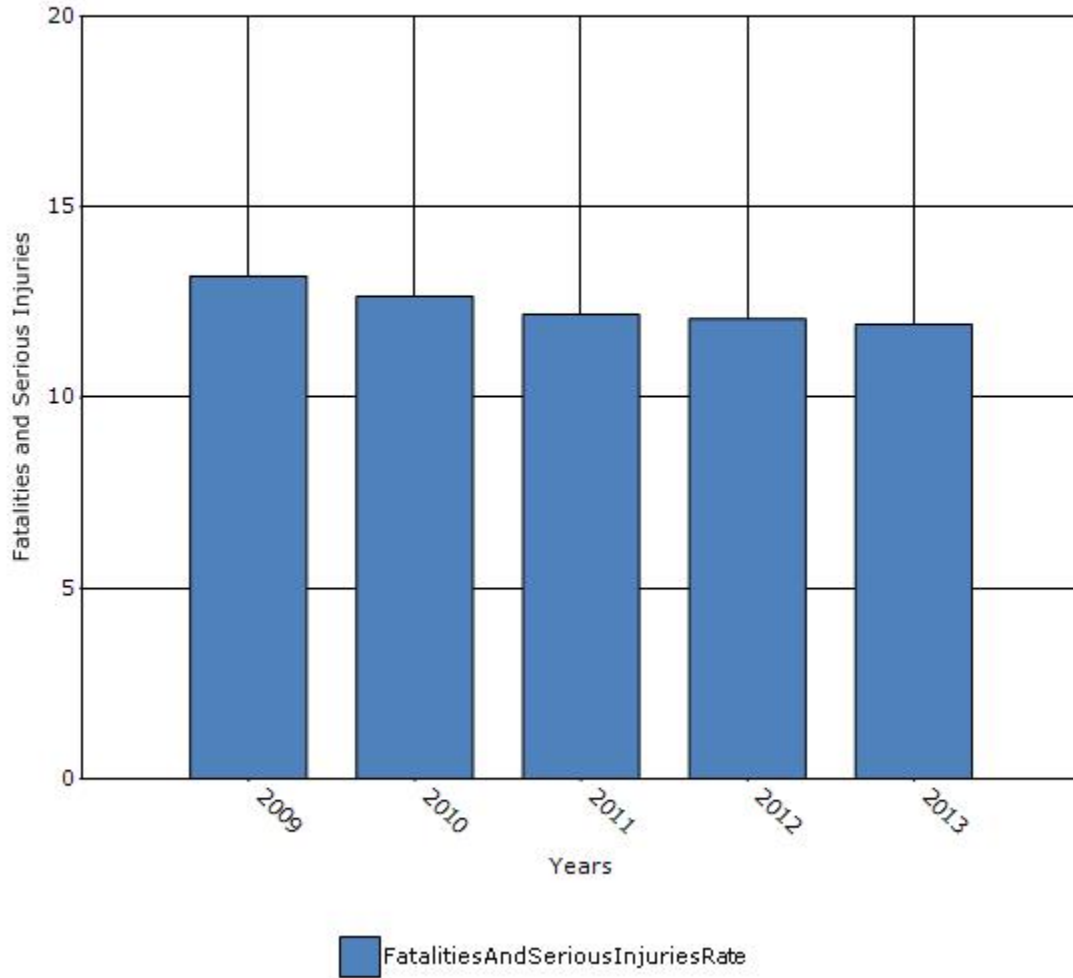
$(12.53 + 12.05 + 11.85 + 11.79 + 11.37) = 59.59 / 5 = 11.918$

**Data Sources:**

**Fatals - FARS (Persons age 65 - 120, person type 1 (Driver) + 5 (Pedestrian), Injury = 4 (Fatal), State = 12 (Florida))**

**Serious Injuries - Florida Department of Highway Safety and Motor Vehicles - Five Year Crash Trends**

### Rate of Fatalities and Serious injuries for the Last Five Years



**Does the older driver special rule apply to your state?**

No

## Assessment of the Effectiveness of the Improvements (Program Evaluation)

**What indicators of success can you use to demonstrate effectiveness and success in the Highway Safety Improvement Program?**

- None
- Benefit/cost
- Policy change
- Other:

**What significant programmatic changes have occurred since the last reporting period?**

- Shift Focus to Fatalities and Serious Injuries
- Include Local Roads in Highway Safety Improvement Program
- Organizational Changes
- None
- Other:

**Briefly describe significant program changes that have occurred since the last reporting period.**

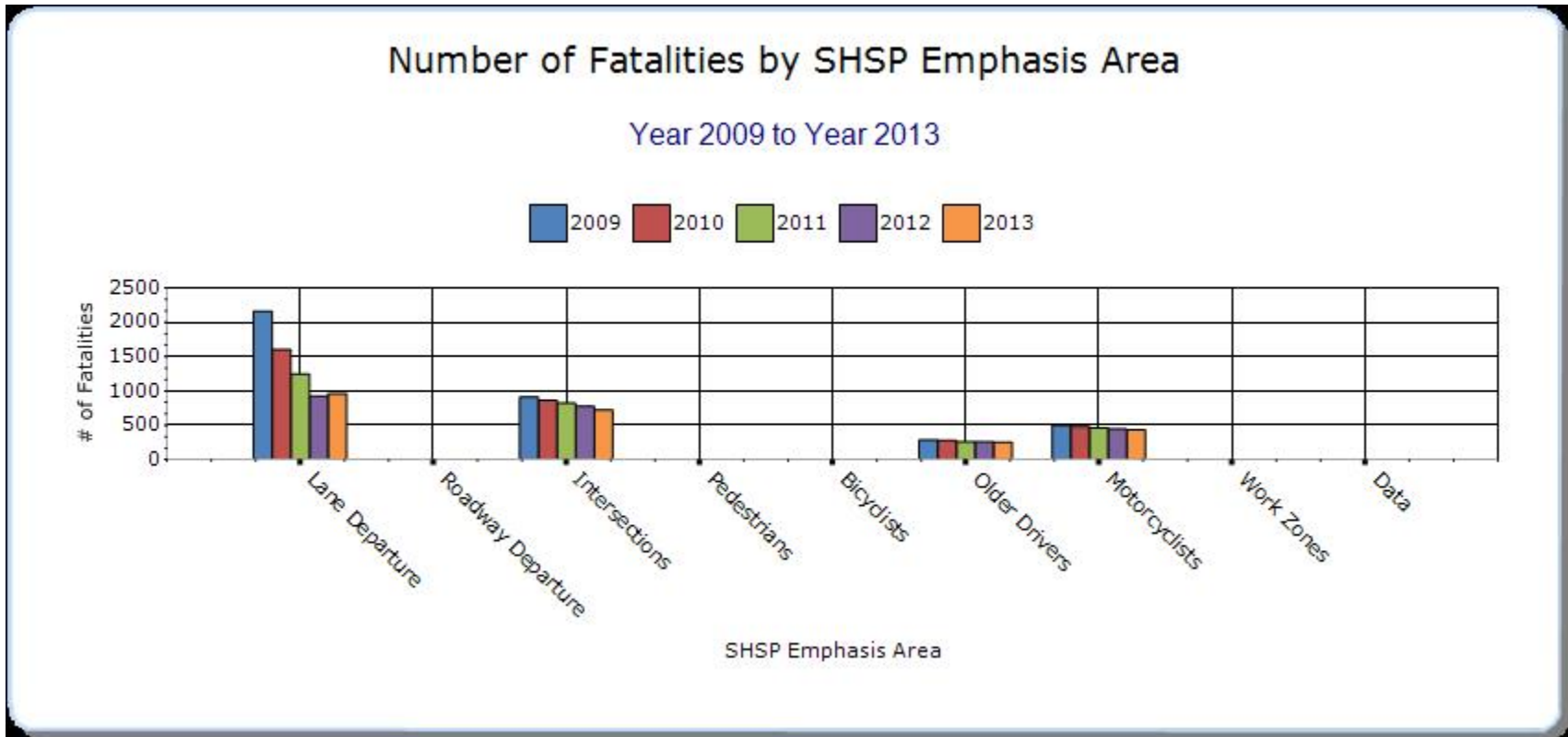
There were no significant program changes during the reporting period.

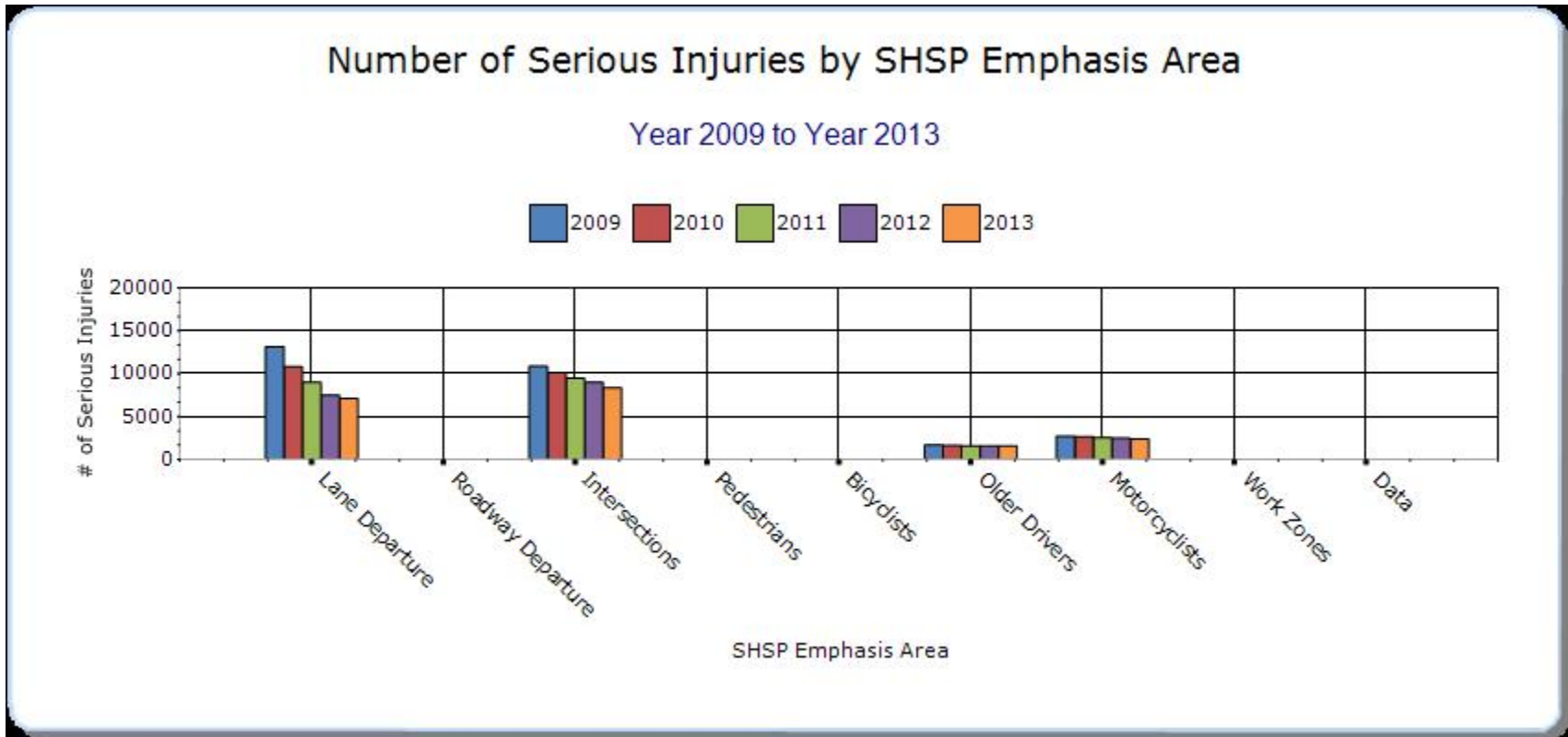
## SHSP Emphasis Areas

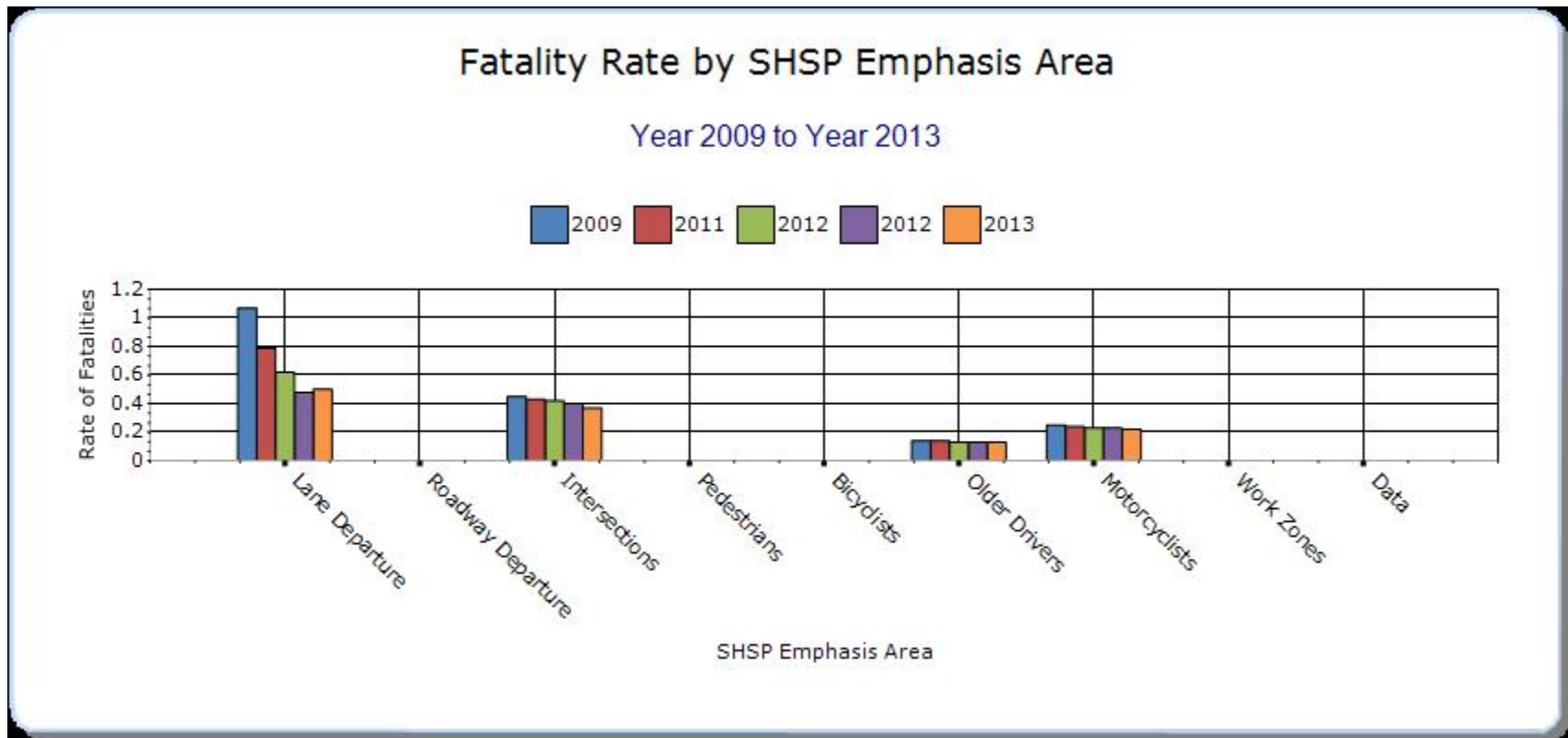
For each SHSP emphasis area that relates to the HSIP, present trends in emphasis area performance measures.

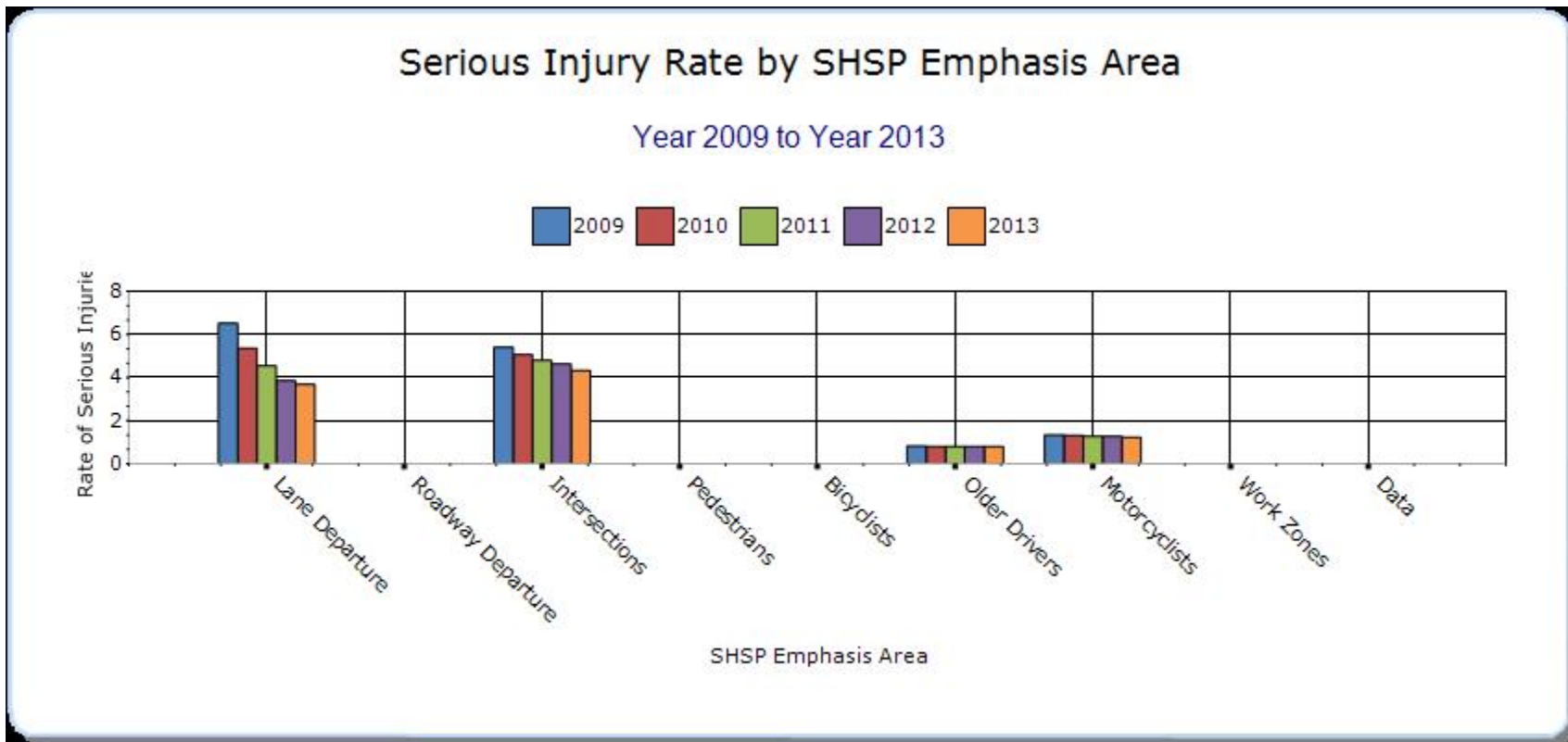
### Year - 2013

HSIP-related SHSP Emphasis Areas	Target Crash Type	Number of fatalities	Number of serious injuries	Fatality rate (per HMVMT)	Serious injury rate (per HMVMT)	Other-1	Other-2	Other-3
Lane Departure	All	959.4	7137.2	0.5	3.69	0	0	0
Intersections	All	720.2	8379.4	0.37	4.33	0	0	0
Older Drivers	All	251.2	1573.2	0.13	0.81	0	0	0
Motorcyclists	All	431	2397.2	0.22	1.24	0	0	0
Impaired Driving	All	791.2	2446.4	0.41	1.26	0	0	0
Teen Drivers	All	97.2	1154.6	0.05	0.6	0	0	0
Pedestrians and Bicyclists	All	599	2410.4	0.31	1.25	0	0	0









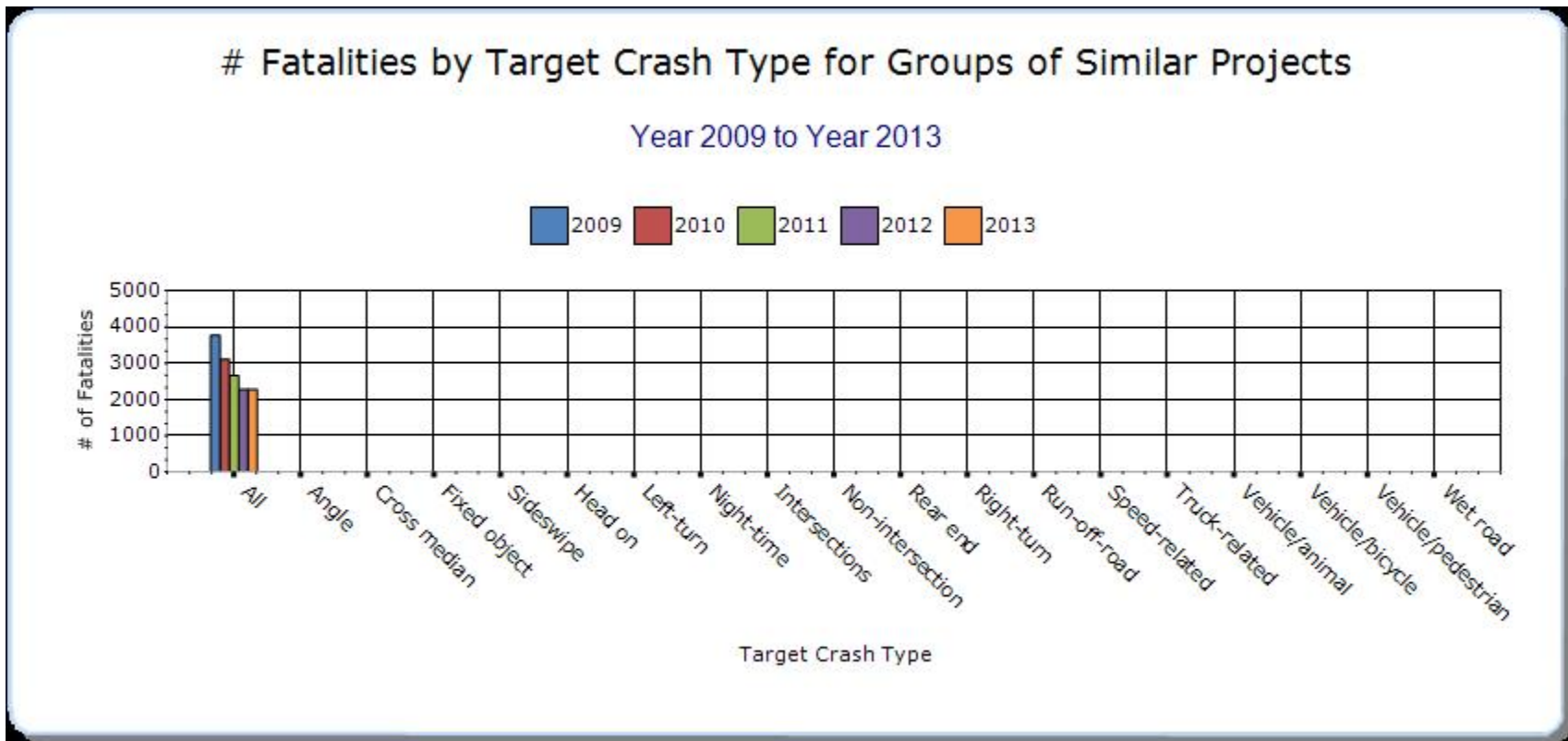


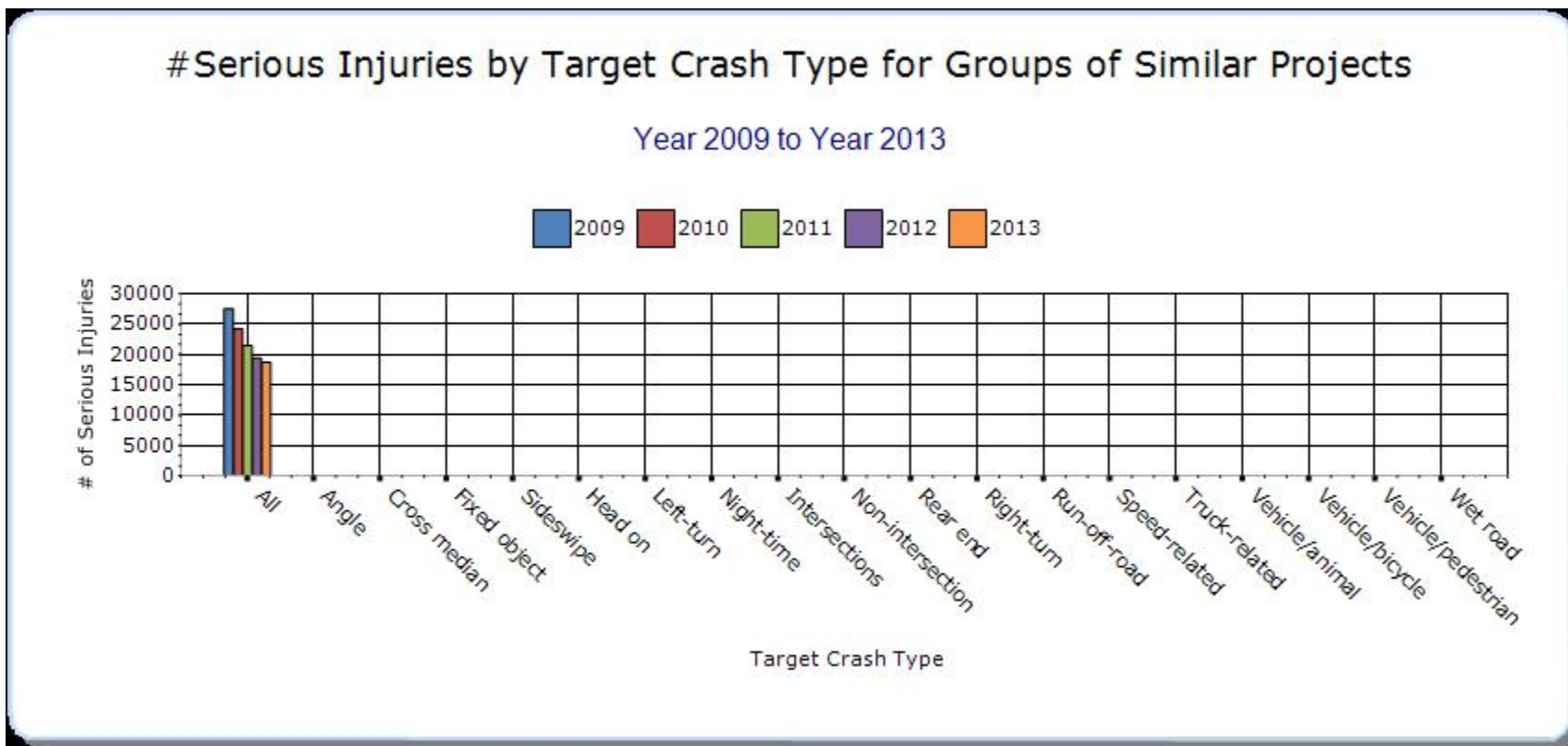
### Groups of similar project types

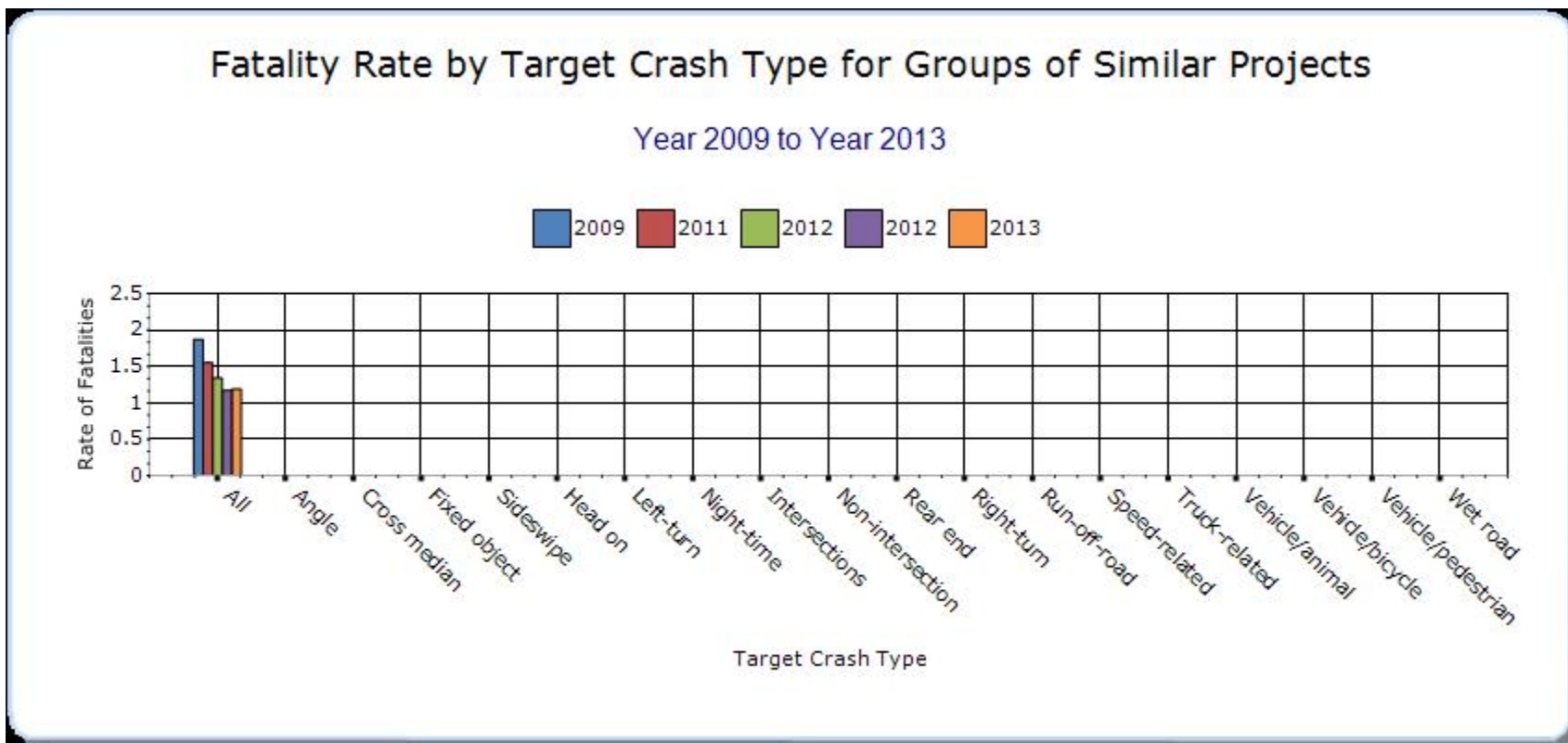
Present the overall effectiveness of groups of similar types of projects.

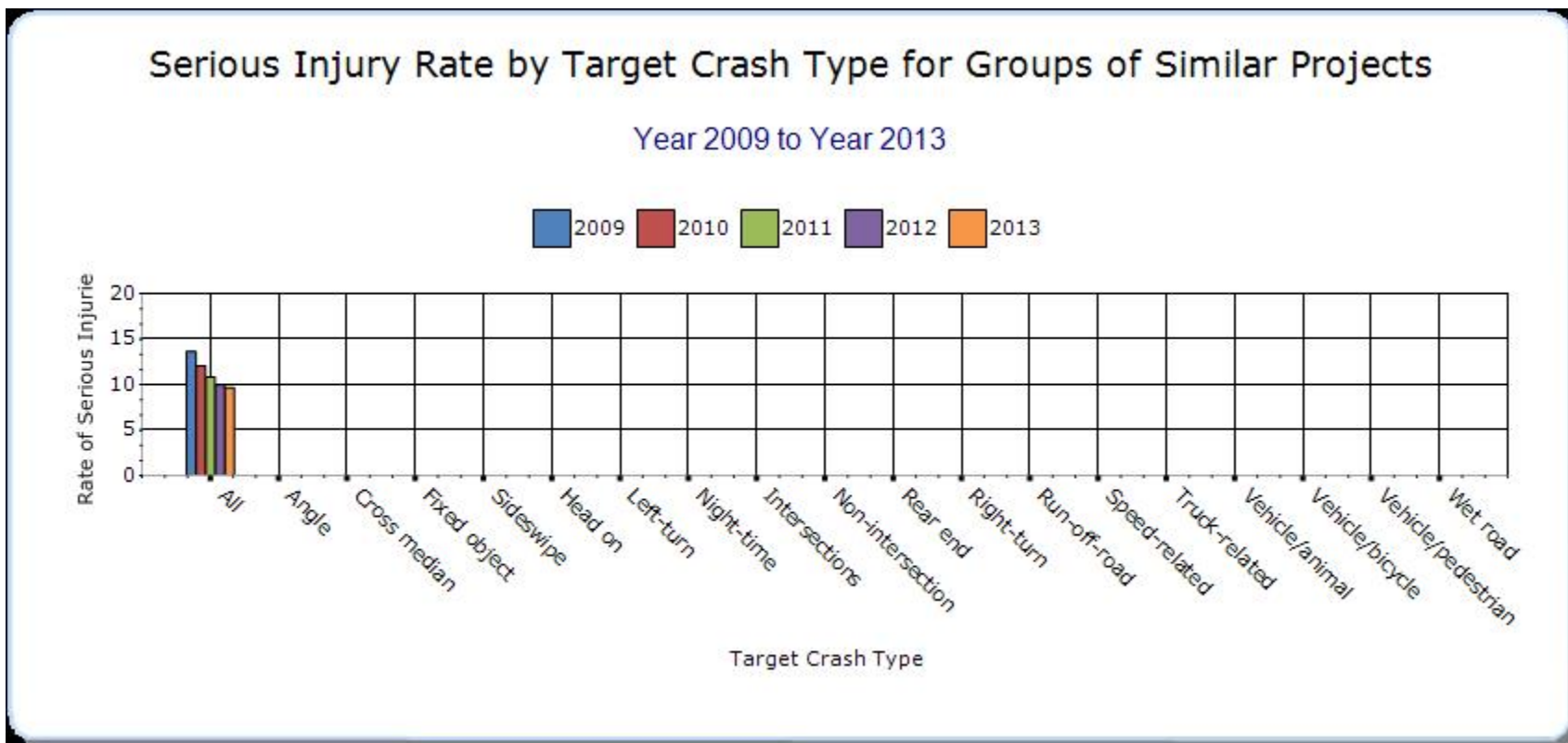
#### Year - 2013

HSIP Sub-program Types	Target Crash Type	Number of fatalities	Number of serious injuries	Fatality rate (per HMVMT)	Serious injury rate (per HMVMT)	Other-1	Other-2	Other-3
<b>Bicycle Safety</b>	All	110	792.49	0.06	0.41	0	0	0
<b>Pedestrian Safety</b>	All	479.2	1607	0.25	0.83	0	0	0
<b>Segments</b>	All	959.4	7137.2	0.5	3.69	0	0	0
<b>Intersection</b>	All	733.6	9178.6	0.38	4.74	0	0	0







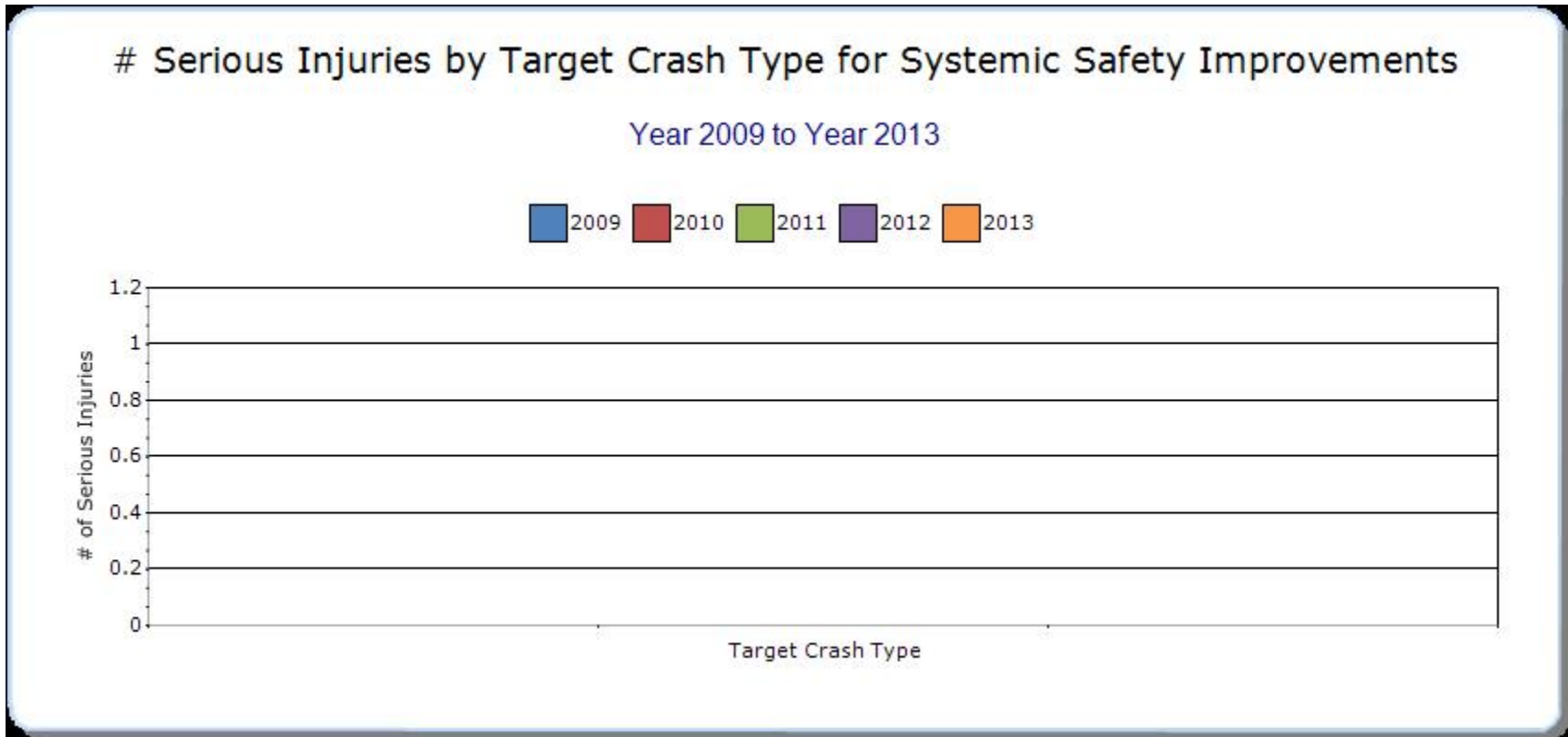


### Systemic Treatments

Present the overall effectiveness of systemic treatments.

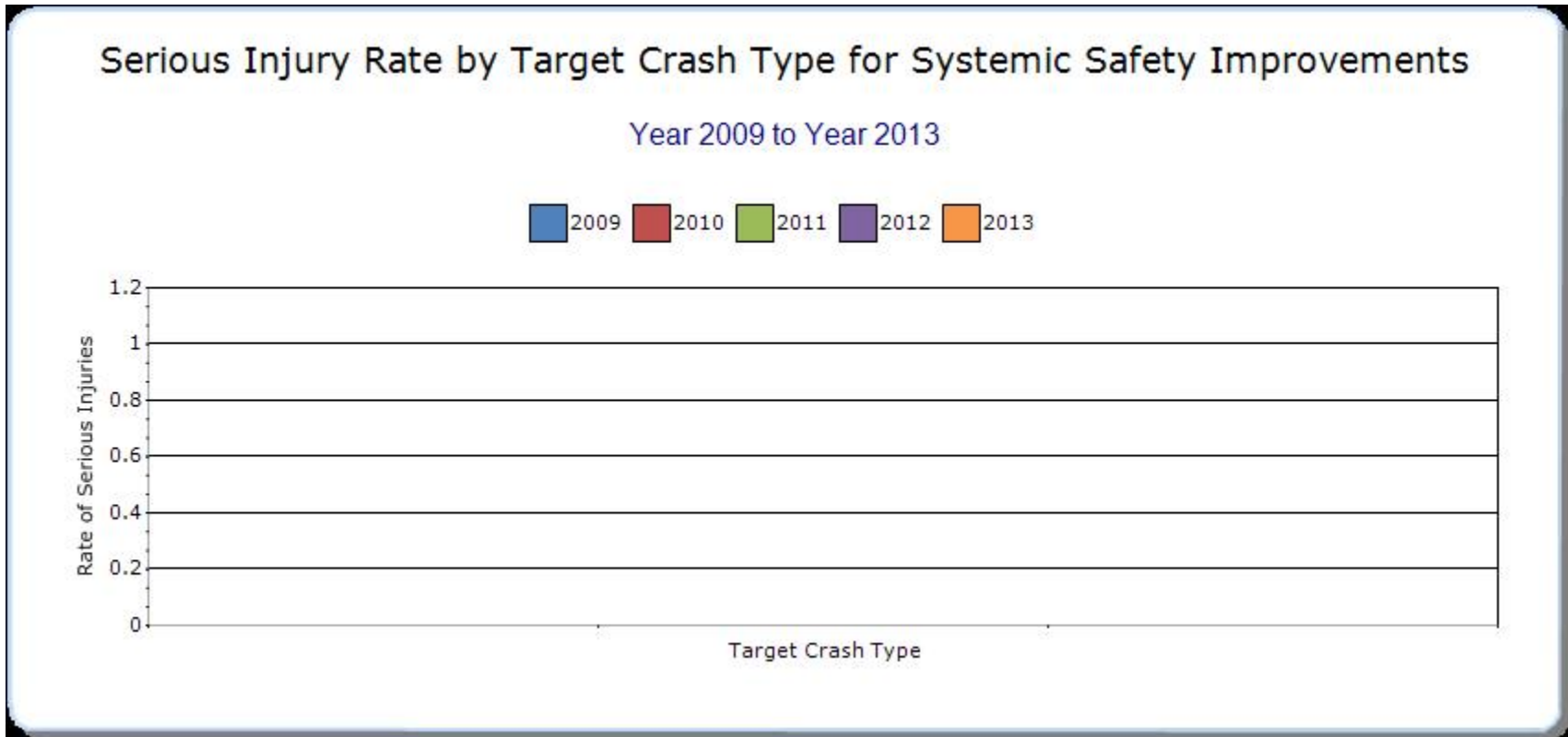
Systemic improvement	Target Crash Type	Number of fatalities	Number of serious injuries	Fatality rate (per HMVMT)	Serious injury rate (per HMVMT)	Other-1	Other-2	Other-3











**Describe any other aspects of the overall Highway Safety Improvement Program effectiveness on which you would like to elaborate.**

Due to the low volume of systemic improvement projects deployed during the reporting period, the department is not reporting on their performance at this time. Any performance reporting would need to be at a region or statewide level and due to the limited number of projects, it would prove difficult to determine the effect of the systemic projects. The department is working with the Federal Highway Administration to develop a program to address lane departure crashes on a systemic basis. An implementation plan is currently being developed to determine how to deploy these projects in a manner which will have the greatest effect in reducing lane departure crashes.

Due to changes in Florida's crash report form in 2010, crash trends for the Aggressive Driving and Distracted Driving emphasis areas are not being reported at this time. As with the other emphasis areas, efforts are underway to address these crash types.

The optional project evaluation shown in the next question (36) is a product created by the FDOT's Crash Reduction Analysis System Hub (CRASH). The projects listed are one which were funded with HSIP or HRRR funds and completed the construction phase during the 2010 calendar year. Crashes for the before period occurred a minimum of 1 year and maximum of 3 years before the construction begin date. Crashes for the after period occurred a minimum of 1 year after the construction end date and a maximum of 36 months after the construction end date. The benefit for the projects was calculated using the change in the total number of crashes from the before period to the after period, multiplied by the FDOT's average cost per crash (\$195,791 / crash in 2014). The cost benefit ratio of each project was calculated by dividing the project benefit by the project cost. Information about the project cost and countermeasures deployed is provided by FDOT district staff.

### Project Evaluation

Provide project evaluation data for completed projects (optional).

Location	Functional Class	Improvement Category	Improvement Type	Bef-Fatal	Bef-Serious Injury	Bef-All Injuries	Bef-PDO	Bef-Total	Aft-Fatal	Aft-Serious Injury	Aft-All Injuries	Aft-PDO	Aft-Total	Evaluation Results (Benefit/ Cost Ratio)
195536-3	Urban Principal Arterial - Other	Roadway	Pavement surface - high friction surface	1	0	53	11	0	1	0	41	25	0	-0.0978955
195840-0		Roadway	Pavement surface - high friction surface	1	0	68	163	0	2	0	101	215	0	-5.02430868865686
197647-3	Rural Principal Arterial - Other Freeways and Expressways	Roadway	Pavement surface - high friction surface	0	0	3	7	0	0	0	4	1	0	0.3059234375
20779	Rural Minor	Intersection	Auxiliary lanes - add left-	1	0	14	18	0	1	0	7	13	0	1.070871467639

6-3	Arterial	geometry	turn lane											02
20862 8-2	Urban Minor Arterial	Intersection geometry	Intersection geometrics - modify intersection corner radius	0	0	2	6	0	0	0	1	5	0	0.196972837022 133
20936 1-4	Urban Principal Arterial - Other	Intersection geometry	Auxiliary lanes - modify turn lane storage	1	0	20	29	0	0	0	37	27	0	- 2.230659056101 07
20936 1-4	Urban Principal Arterial - Other	Intersection geometry	Splitter island - install on one or more approaches	1	0	18	28	0	0	0	32	26	0	- 1.390381536475 15
20957 4-6	Urban Principal Arterial - Other	Intersection traffic control	Modify traffic signal - miscellaneous/other/unspe cified	0	0	0	0	0	0	0	0	1	0	- 0.955087366706 017
20957 4-6	Urban Principal Arterial - Other	Intersection geometry	Intersection geometrics - miscellaneous/other/unspe cified	0	0	0	0	0	0	0	0	1	0	- 0.575855882352 941
20969 8-1	Urban Principal Arterial - Other	Pedestrians and bicyclists	Install sidewalk	0	0	72	34	106	0	0	69	71	140	-33.28447

<b>20969 8-1</b>	Urban Principal Arterial - Other	Pedestrians and bicyclists	Install sidewalk	0	0	72	34	0	0	0	69	71	0	- 9.323380952380 95
<b>21037 6-5</b>	Rural Principal Arterial - Other Freeways and Expresswa ys	Shoulder treatments	Pave existing shoulders	0	0	9	21	0	1	0	7	12	0	1.220701505434 8
<b>21037 6-6</b>	Rural Principal Arterial - Other Freeways and Expresswa ys	Shoulder treatments	Pave existing shoulders	0	0	24	13	0	1	0	23	11	0	0.266927062031 357
<b>21037 6-6</b>	Rural Principal Arterial - Other Freeways and Expresswa	Shoulder treatments	Pave existing shoulders	0	0	24	13	0	1	0	23	11	0	0.287716385011 021

	ys													
<b>21037 6-7</b>	Rural Principal Arterial - Other Freeways and Expresswa ys	Shoulder treatments	Pave existing shoulders	3	0	14	9	0	1	0	7	11	0	0.670845325501 713
<b>21037 6-7</b>	Rural Principal Arterial - Other Freeways and Expresswa ys	Shoulder treatments	Pave existing shoulders	3	0	14	9	0	1	0	7	11	0	0.793134837962 963
<b>21042 9-3</b>	Rural Principal Arterial - Other Freeways and Expresswa ys	Intersection geometry	Auxiliary lanes - add right- turn lane	0	0	19	20	0	0	0	24	9	0	9.708644628099 17
<b>21042</b>	Rural Principal	Intersection	Auxiliary lanes - add right-	0	0	7	8	0	0	0	4	0	0	12.97410240963

9-3	Arterial - Other Freeways and Expressways	geometry	turn lane											86
212943-4	Rural Principal Arterial - Interstate	Intersection geometry	Auxiliary lanes - extend acceleration/deceleration lane	0	0	11	13	0	0	0	5	2	0	4.76854871060172
254677-2		Roadway signs and traffic control	Curve-related warning signs and flashers	0	0	8	6	0	0	0	12	5	0	-9.03650769230769
254677-2		Intersection traffic control	Intersection flashers - add overhead (continuous)	0	0	1	0	0	0	0	2	1	0	-4.01622564102564
254677-2		Access management	Change in access - close or restrict existing access	0	0	5	4	0	0	0	3	8	0	-3.76521153846154
254677-2		Access management	Change in access - close or restrict existing access	2	0	155	236	0	3	0	181	209	0	0
254677-2		Access management	Change in access - close or restrict existing access	1	0	1	0	0	0	0	0	0	0	0.851265217391



		t	restrict existing access											304
25467 7-2		Access managemen t	Change in access - close or restrict existing access	4	0	61	46	0	2	0	44	52	0	4.619388384754 99
25467 7-2		Access managemen t	Change in access - close or restrict existing access	0	0	27	35	0	0	0	22	35	0	5.792633136094 67
25467 7-2		Pedestrians and bicyclists	Pedestrian signal	0	0	4	2	0	0	0	3	1	0	6.024338461538 46
25467 7-2		Roadway delineation	Roadway delineation - other	4	0	43	25	0	4	0	31	22	0	16.31591666666 67
25467 7-2		Roadway	Rumble strips - edge or shoulder	0	0	11	17	0	0	0	3	7	0	22.59126923076 92
25467 7-2		Roadway	Rumble strips - edge or shoulder	0	0	14	13	0	0	0	3	3	0	39.53472115384 62
25467 7-2		Roadway	Rumble strips - edge or shoulder	3	0	123	115	0	2	0	117	87	0	45.32199074074 07
25467 7-2		Roadway	Rumble strips - edge or shoulder	5	0	54	35	0	2	0	37	34	0	89.38284782608 7
25467 7-2		Roadway	Rumble strips - edge or shoulder	4	0	148	284	0	4	0	134	188	0	158.9681871863 01
41133	Urban	Roadway	Rumble strips - edge or	7	0	301	344	0	6	0	287	287	0	64.36964383561

7-1	Principal Arterial - Other		shoulder											64
41556 9-1	Rural Minor Arterial	Roadside	Barrier- metal	0	0	8	5	0	0	0	5	2	0	0.626282023259 013
41608 6-1	Urban Principal Arterial - Other	Intersection geometry	Auxiliary lanes - add left-turn lane	0	0	45	27	0	0	0	30	15	0	8.567839546191 25
41724 4-2	Rural Minor Arterial	Shoulder treatments	Pave existing shoulders	8	0	47	29	0	6	0	43	18	0	0.596379701660 268
41936 6-1	Urban Principal Arterial - Other	Intersection geometry	Intersection geometrics - miscellaneous/other/unspecified	0	0	54	37	0	0	0	32	30	0	14.1948475
41949 6-1	Rural Principal Arterial - Other Freeways and Expressways	Roadway	Rumble strips - unspecified or other	0	0	4	5	0	0	0	7	13	0	- 0.934766059027 778

<b>41980 4-1</b>	Rural Principal Arterial - Interstate	Roadside	Barrier- metal	14	0	200	278	0	10	0	233	347	0	- 9.257199621944 77
<b>41985 0-1</b>	Urban Minor Arterial	Intersection geometry	Intersection geometrics - miscellaneous/other/unspe cified	0	0	26	39	0	0	0	22	41	0	1.919519607843 14
<b>41994 7-1</b>	Urban Minor Arterial	Lighting	Continuous roadway lighting	1	0	84	188	0	1	0	75	194	0	0.727847583643 123
<b>41994 7-1</b>	Urban Minor Arterial	Intersection geometry	Auxiliary lanes - miscellaneous/other/unspe cified	1	0	22	20	0	0	0	12	16	0	6.977517438655 85
<b>42023 4-1</b>	Urban Principal Arterial - Other	Intersection geometry	Auxiliary lanes - miscellaneous/other/unspe cified	1	0	21	21	0	0	0	14	18	0	10.29375693037 13
<b>42023 6-1</b>	Urban Principal Arterial - Other	Intersection geometry	Auxiliary lanes - miscellaneous/other/unspe cified	0	0	9	13	0	0	0	3	2	0	19.40117976905 9
<b>42097 8-1</b>		Lighting	Continuous roadway lighting	6	0	67	61	0	4	0	83	49	0	- 0.323889164598 842

<b>42148</b> <b>0-4</b>	Urban Principal Arterial - Other	Pedestrians and bicyclists	Install sidewalk	1	0	48	52	0	1	0	50	54	0	- 1.517759689922 48
<b>42150</b> <b>3-1</b>	Rural Minor Arterial	Roadway	Rumble strips - edge or shoulder	7	0	95	42	0	6	0	80	47	0	3.589501666666 67
<b>42177</b> <b>0-1</b>	Rural Principal Arterial - Other Freeways and Expresswa ys	Intersection traffic control	Modify traffic signal - miscellaneous/other/unspe cified	1	0	17	12	0	0	0	9	6	0	9.78955
<b>42228</b> <b>2-1</b>	Rural Principal Arterial - Other Freeways and Expresswa ys	Lighting	Continuous roadway lighting	1	0	16	23	0	0	0	12	22	0	6.349978378378 38
<b>42239</b> <b>2-1</b>	Urban Principal Arterial -	Intersection geometry	Auxiliary lanes - add left- turn lane	1	0	64	33	0	0	0	50	37	0	0.897375416666 667

	Other													
<b>42239 3-1</b>	Urban Principal Arterial - Other	Roadway	Pavement surface - high friction surface	1	0	35	32	0	0	0	45	27	0	- 0.139850714285 714
<b>42239 7-1</b>	Urban Minor Arterial	Roadway	Pavement surface - high friction surface	0	0	9	6	0	0	0	3	1	0	0.717900333333 333
<b>42239 8-1</b>	Rural Principal Arterial - Other Freeways and Expresswa ys	Roadway	Pavement surface - high friction surface	1	0	8	11	0	0	0	9	11	0	0
<b>42240 0-1</b>	Urban Minor Arterial	Roadway	Pavement surface - high friction surface	1	0	15	6	0	2	0	12	3	0	0.575855882352 941
<b>42240 1-x</b>		Roadway	Pavement surface - high friction surface	1	0	6	9	0	1	0	12	7	0	- 0.237322424242 424
<b>42240 2-1</b>	Urban Principal Arterial -	Roadway	Pavement surface - high friction surface	0	0	11	11	0	0	0	15	8	0	- 0.108772777777

	Other													778
<b>42249 9-1</b>	Rural Principal Arterial - Interstate	Roadway	Pavement surface - high friction surface	3	0	31	20	0	1	0	23	17	0	0.248320292682 927
<b>42266 3-1</b>	Urban Principal Arterial - Other	Access managemen t	Change in access - close or restrict existing access	0	0	12	5	0	0	0	3	3	0	11.96500555555 56
<b>42266 7-1</b>	Urban Major Collector	Roadway	Rumble strips - edge or shoulder	6	0	107	98	0	2	0	76	41	0	46.92109040232 36
<b>42266 8-1</b>	Urban Minor Arterial	Roadway	Rumble strips - edge or shoulder	2	0	53	63	0	0	0	27	33	0	55.53919967133 9
<b>42269 9-1</b>	Rural Principal Arterial - Other Freeways and Expresswa ys	Intersection traffic control	Modify traffic signal - miscellaneous/other/unspe cified	0	0	15	1	0	0	0	5	10	0	0.286819888460 316
<b>42270 5-1</b>	Rural Principal	Roadway	Roadway delineation -	3	0	51	42	0	3	0	49	56	0	- 14.30253666197

	Arterial - Other	delineation	other											93
<b>423047-1</b>	Urban Principal Arterial - Other	Roadway	Pavement surface - high friction surface	3	0	169	205	0	1	0	170	173	0	18.4602942857143
<b>423220-1</b>	Rural Minor Arterial	Roadway	Rumble strips - edge or shoulder	2	0	7	7	0	0	0	5	2	0	1.67661179828735
<b>423222-1</b>	Rural Principal Arterial - Other Freeways and Expressways	Roadway	Rumble strips - edge or shoulder	0	0	8	1	0	0	0	7	4	0	-7.83164
<b>423222-1</b>	Rural Principal Arterial - Other Freeways and Expressways	Roadway	Rumble strips - edge or shoulder	2	0	14	2	0	0	0	7	7	0	15.66328

42322 2-1	Rural Principal Arterial - Other Freeways and Expresswa ys	Roadway	Rumble strips - edge or shoulder	0	0	19	8	0	2	0	6	12	0	27.41074
42325 6-1	Urban Principal Arterial - Interstate	Roadway	Pavement surface - high friction surface	0	0	3	3	0	0	0	3	3	0	0
42325 6-1	Urban Principal Arterial - Interstate	Roadway	Pavement surface - high friction surface	0	0	30	17	0	0	0	2	0	0	18.62705073995 77
42327 3-1	Urban Principal Arterial - Other	Intersection geometry	Auxiliary lanes - add left- turn lane	1	0	16	29	0	0	0	18	13	0	44.60947824105 72
42327 4-1	Urban Principal Arterial - Other	Access managemen t	Change in access - miscellaneous/unspecified	0	0	20	15	0	0	0	24	10	0	0.109380446927 374
42327	Urban Minor	Intersection	Auxiliary lanes - add left-	1	0	10	2	0	0	0	12	2	0	- 0.533333514932




5-1	Arterial	geometry	turn lane											935
42327 7-1	Rural Principal Arterial - Other	Intersection geometry	Auxiliary lanes - add left- turn lane	0	0	2	1	0	0	0	3	1	0	- 1.138544828628 92
42328 0-1	Urban Principal Arterial - Other	Intersection geometry	Auxiliary lanes - add left- turn lane	4	0	12	8	0	2	0	14	5	0	2.317647523033 52
42328 1-1	Urban Principal Arterial - Other	Intersection geometry	Auxiliary lanes - add left- turn lane	0	0	6	4	0	0	0	7	6	0	- 6.451528931066 3
42337 6-6		Roadway	Rumble strips - edge or shoulder	1	0	6	6	0	1	0	7	7	0	- 3.525764656096 09
42337 7-1	Rural Major Collector	Roadway	Rumble strips - edge or shoulder	1	0	2	2	0	0	0	0	3	0	4.075922224997 92
42337 8-1	Rural Major Collector	Intersection geometry	Auxiliary lanes - add left- turn lane	0	0	3	6	0	0	0	5	4	0	0
42337 9-1	Rural Major	Intersection geometry	Auxiliary lanes - add left- turn lane	0	0	31	26	0	2	0	29	15	0	12.30341790013 08

	Collector													
<b>42351 5-1</b>	Urban Minor Arterial	Intersection geometry	Auxiliary lanes - modify turn lane storage	0	0	18	47	0	0	0	22	79	0	- 22.81060194174 76
<b>42351 5-1</b>	Urban Minor Arterial	Intersection geometry	Intersection geometrics - miscellaneous/other/unspe cified	0	0	21	36	0	2	0	25	50	0	- 12.67255663430 42
<b>42351 7-1</b>	Urban Principal Arterial - Other	Intersection geometry	Auxiliary lanes - add left- turn lane	0	0	16	52	0	1	0	12	18	0	33.07884474885 85
<b>42351 8-1</b>	Urban Minor Arterial	Intersection traffic control	Modify traffic signal - miscellaneous/other/unspe cified	0	0	30	13	0	1	0	14	16	0	15.98293877551 02
<b>42355 2-1</b>	Urban Principal Arterial - Other	Intersection geometry	Intersection geometrics - miscellaneous/other/unspe cified	0	0	31	32	0	1	0	21	37	0	2.619277591973 24
<b>42411 5-1</b>	Urban Minor Arterial	Lighting	Continuous roadway lighting	1	0	23	32	0	1	0	23	20	0	67.87104601785 25
<b>42471 1-1</b>	Rural Minor Arterial	Roadway	Rumble strips - edge or shoulder	3	0	42	43	0	2	0	37	43	0	5.315592760181

<b>42473 1-1</b>	Urban Principal Arterial - Other	Pedestrians and bicyclists	Install sidewalk	0	0	1	2	0	0	0	0	1	0	0.862515418502 203
<b>42473 1-1</b>	Urban Principal Arterial - Other	Pedestrians and bicyclists	Install sidewalk	0	0	1	2	0	0	0	0	1	0	5.844507462686 57
<b>42473 3-1</b>	Urban Minor Arterial	Intersection geometry	Auxiliary lanes - add two- way left-turn lane	0	0	3	7	0	0	0	4	8	0	- 1.666306382978 72
<b>42480 4-1</b>	Rural Principal Arterial - Other Freeways and Expresswa ys	Roadway	Rumble strips - edge or shoulder	1	0	31	29	0	1	0	25	21	0	6.863082570093 69
<b>42480 5-1</b>	Rural Principal Arterial - Other Freeways and Expresswa	Roadway	Rumble strips - edge or shoulder	1	0	35	31	0	1	0	26	38	0	0.629392165025 339

	ys													
42513 4-1	Urban Principal Arterial - Other	Intersection geometry	Intersection geometrics - miscellaneous/other/unspe cified	0	0	9	18	0	0	0	8	18	0	2.427783151055 23
42558 5-1	Urban Principal Arterial - Other	Intersection geometry	Auxiliary lanes - add right- turn lane	0	0	3	1	0	0	0	3	3	0	- 1.316666890828 64
42672 4-1	Rural Minor Arterial	Intersection geometry	Splitter island - install on one or more approaches	0	0	14	2	0	0	0	16	5	0	-1.22369375
42703 3-1	Urban Principal Arterial - Interstate	Roadside	Barrier end treatments (crash cushions, terminals)	1	0	44	64	0	0	0	48	75	0	- 8.109686390532 54
42703 3-2	Urban Principal Arterial - Interstate	Roadside	Barrier end treatments (crash cushions, terminals)	1	0	113	174	0	2	0	110	127	0	45.46805213270 14
42751 7-1	Urban Principal Arterial - Other	Intersection traffic control	Modify traffic signal - miscellaneous/other/unspe cified	0	0	18	41	0	0	0	11	41	0	8.206808383233 53



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## **Optional Attachments**

**Sections**

**Files Attached**

## Glossary

**5 year rolling average** means the average of five individual, consecutive annual points of data (e.g. annual fatality rate).

**Emphasis area** means a highway safety priority in a State's SHSP, identified through a data-driven, collaborative process.

**Highway safety improvement project** means strategies, activities and projects on a public road that are consistent with a State strategic highway safety plan and corrects or improves a hazardous road location or feature or addresses a highway safety problem.

**HMVMT** means hundred million vehicle miles traveled.

**Non-infrastructure projects** are projects that do not result in construction. Examples of non-infrastructure projects include road safety audits, transportation safety planning activities, improvements in the collection and analysis of data, education and outreach, and enforcement activities.

**Older driver special rule** applies if traffic fatalities and serious injuries per capita for drivers and pedestrians over the age of 65 in a State increases during the most recent 2-year period for which data are available, as defined in the Older Driver and Pedestrian Special Rule Interim Guidance dated February 13, 2013.

**Performance measure** means indicators that enable decision-makers and other stakeholders to monitor changes in system condition and performance against established visions, goals, and objectives.

**Programmed funds** mean those funds that have been programmed in the Statewide Transportation Improvement Program (STIP) to be expended on highway safety improvement projects.

**Roadway Functional Classification** means the process by which streets and highways are grouped into classes, or systems, according to the character of service they are intended to provide.

**Strategic Highway Safety Plan (SHSP)** means a comprehensive, multi-disciplinary plan, based on safety data developed by a State Department of Transportation in accordance with 23 U.S.C. 148.

**Systemic safety improvement** means an improvement that is widely implemented based on high risk roadway features that are correlated with specific severe crash types.

**Transfer** means, in accordance with provisions of 23 U.S.C. 126, a State may transfer from an apportionment under section 104(b) not to exceed 50 percent of the amount apportioned for the fiscal year to any other apportionment of the State under that section.