



Highway Safety Improvement Program
Data Driven Decisions

Texas
Highway Safety Improvement Program
2016 Annual Report

Prepared by: TX

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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2. Executive Summary

The Highway Safety Improvement Program (HSIP), created under 23 USC § 148, is a federal safety construction program designed to reduce the number and severity of traffic crashes. The program objectives are accomplished through "highway safety projects."

HSIP safety projects are generally focused on the following types of work:

- * Barriers
- * Curve Improvements
- * Grade Separations
- * Intersection Improvements
- * Off-System Improvements
- * Rumble Strips
- * Widening

The HSIP is administered by the Texas Department of Transportation, Traffic Operations Division (TRF). TRF requests proposed highway safety projects from districts through a statewide program call on an annual basis.

These projects may range from spot safety improvements and upgrading existing conditions to new roadway construction (such as grade separations). Typically highway safety projects are small in scope, low in cost, and can be let to contract within 3 years.

Project Selection

All eligible proposed highway safety projects are subjected to a benefit/cost analysis. The formula used for this purpose is the Safety Improvement Index (SII).

In its most basic form, the SII is the ratio of the cost of crashes that have occurred at a location to the cost of constructing the proposed improvement.

Funding Limitations

Approximately, 20 to 30% of eligible project proposals are funded each program year.

- * Reporting period for this years HSIP report is by calendar year (2015).

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

3. How are Highway Safety Improvement Program funds administered in the State?

Central

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

Local roads receive the same consideration as roads on the state highway system. They are subjected to the same cost/benefit analysis.

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

Design
Planning
Operations

6. Briefly describe coordination with internal partners.

1. TRF (Central) - Using the most current Strategic Highway Safety Plan (SHSP), the program safety emphasis areas are identified.
2. TRF (Central) - Identifies potential project locations that qualify for improvements in the identified program emphasis area using the three most current years of crash data.
3. District (Design/Operations) - Evaluates each identified location to determine if the project is feasible and to verify that appropriate countermeasures addressing the location's safety needs have not already been implemented or scheduled for construction.

4. District (Design/Operations) - Works with area offices and local governments to gather additional location information and to identify any potential locations that may have been excluded due to incomplete or inaccurate crash and roadway data.
5. District (Design/Operations) - For projects determined to be feasible, conducts a field evaluation to determine the appropriate countermeasures and develop a detailed estimate.
6. District (Design/Operations) - Completes and submits projects containing requested data to the Texas Department of Transportation (TxDOT) Traffic Operations Division (TRF) along with necessary backup data (typical sections, layouts, etc.) in response to the program call.
7. TRF (Central) - Analyzes the proposed highway safety projects for HSIP eligibility, data accuracy, and conformance with design standards.
8. TRF (Central) - Analyzes each eligible project's Safety Improvement Index (SII), then puts the projects into priority order based on the results.
9. TRF (Central) - Places projects in the HSIP according to priority and appropriated federal funding, then sends listing of highway safety projects selected for funding in the HSIP to the districts.
10. District (Planning) - Sets projects up in the Design/Construction Information System (DCIS) in the assigned work program and may include qualifying projects in the Transportation Improvement Program (TIP) as appropriate.
11. District (Design/Operations) - Notifies TRF of an overrun of a HSIP projects authorized funds prior to Plans, Specifications and Estimate (PS&E) submittal.
12. District (Design/Operations) - Submits PS&E for HSIP projects to TRF in accordance with standard PS&E submission schedule.
13. TRF (Central) - Handles overruns of project authorized funds at the divisional PS&E review stage in accordance with the current TxDOT policy.

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

Metropolitan Planning Organizations

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

Other-No change

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

We do not have anything on which to elaborate.

Program Methodology

10. Select the programs that are administered under HSIP.

Other-No subprograms under
HSIP

11. Program: Other-No subprograms under HSIP

Date of Program Methodology: 1/1/2015

What data types were used in the program methodology?

Crashes

Exposure

Roadway

What project identification methodology was used for this program?

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

How are highway safety improvement projects advanced for implementation?

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).

12. What proportion of highway safety improvement program funds address systemic improvements?

0%

13. What process is used to identify potential countermeasures?

Engineering Study

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

Other-No change

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

Texas is in the process of implementing a systemic safety program to reduce the number and severity of crashes on Texas roads. Texas uses the Federal Highway Administration (FHWA) guidelines for a systemic approach to safety by:

- Evaluating crash data to determine critical crash type and focus area
- Calculating the risk factors for different roadway characteristics related to the crash type and focus area
- Selecting a low cost engineering countermeasure to address the crash type and focus area for roadways with high risk roadway characteristics
- Prioritizing the roadways with high risk roadway characteristics and developing a plan to implement the low cost engineering countermeasure

The Texas systemic safety program focuses on three of the critical crash types that have been identified in the Texas Strategic Highway Safety Plan (SHSP) which are run-off the road, intersection and head-on crashes.

Intersection Safety Improvement Plan

The North Central Texas Council of Governments (NCTCOG) conducted the first systemic safety study in Texas. NCTCOG worked with the FHWA to conduct an Intersection Safety Improvement Plan (ISIP), which identified low cost countermeasures at urban intersections in the Dallas-Fort Worth region.

The Texas Department of Transportation (TxDOT) working with the FHWA recently expanded the ISIP to the other urban regions in Texas. The Texas ISIP was completed in 2016.

Systemic Widening Program

Texas has developed a Systemic Widening Program (SSWP) which provides additional paved surface width on highways that have an existing width less than 24 feet on rural highways with high risk factors relating to traffic volumes, lane configuration, truck traffic and roadway alignment.

All eligible proposed SSWP highway widening projects were evaluated using a total risk factor weight for roadway characteristics. Some of the roadway characteristics considered include paved surface width, average daily traffic, roadway alignment and truck percentages. A statewide assessment of fatal and incapacitating crash types was performed for the associated roadway characteristics. Risk factor weights were calculated using the total crashes and the crash over-representation of each element. The SSWP is 100% state funded.

Future Systemic Safety Programs in Texas

Texas is in the process of conducting a Systemic Barrier program which will provide concrete or cable median barriers on highways that have high risk factors relating to traffic volumes, truck traffic, median widths and inside shoulder widths.

Texas is also considering Systematic Rumble Strip and Systemic Curve Improvement programs to reduce the number and severity of run-off the road and head-on crashes.

Texas would like to expand the systemic safety program to local city and county governments. Texas plans to work with the Texas Local Technical Assistance Program (TxLTAP) to share the procedures and data necessary to conduct a systemic safety analysis.

Texas currently does not fund any systemic improvements in the Highway Safety Improvement Program (HSIP), but is working towards programming systemic improvements in the HSIP.

Progress in Implementing Projects

Funds Programmed

16. Reporting period for Highway Safety Improvement Program funding.

Calendar Year

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

Funding Category	Programmed*		Obligated	
	Amount	Percentage	Amount	Percentage
HSIP (Section 148)	\$182,144,392.00	100 %	\$276,437,425.00	100 %
HRRRP (SAFETEA-LU)	\$0.00	0 %	\$11,329.00	0 %
Totals	\$182,144,392.00	100%	\$276,448,754.00	100%

18. How much funding is programmed to local (non-state owned and operated) safety projects?

\$11,371,416.00

How much funding is obligated to local safety projects?

\$1,216,298.00

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

\$0.00

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

\$6,000,000.00

20. 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

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

We do not have any impediments to obligating our HSIP funds at this time. Our Administration is supportive of the program and provides us with appropriate obligation authority.

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

We do not have anything on which to elaborate.

General Listing of Projects

23. List the projects obligated using HSIP funds for 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
STP 2015(720)HE S	Lighting Intersection lighting	1 Numbers	99550	99550	HSIP (Section 148)	Urban Principal Arterial - Other Freeways and Expressways	5428	65	State Highway Agency	Intersections	Eliminate limited sight distance on all roads. Th
STP 2015(790)HE S	Shoulder treatments Widen shoulder - paved or other	4 Miles	2012037	2012037	HSIP (Section 148)	Rural Major Collector	412	70	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 2015(791)HE S	Shoulder treatments Widen shoulder - paved or other	2 Miles	671964	671964	HSIP (Section 148)	Rural Major Collector	1053	70	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 2015(792)HE S	Shoulder treatments Widen shoulder -	3 Miles	941310	941310	HSIP (Section 148)	Rural Major Collector	799	70	State Highway Agency	Roadway Departure	Increase the use of paved shoulders

	paved or other										on FM roads to
STP 1502(296)HE S	Shoulder treatments Widen shoulder - paved or other	9 Miles	5080558	5080558	HSIP (Section 148)	Rural Minor Collector	1428	70	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(297)HE S	Shoulder treatments Widen shoulder - paved or other	2 Miles	1089505	1089505	HSIP (Section 148)	Rural Major Collector	132	70	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(298)HE S	Shoulder treatments Widen shoulder - paved or other	3 Miles	3476065	3476065	HSIP (Section 148)	Rural Major Collector	4041	75	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(299)HE S	Shoulder treatments Widen shoulder - paved or other	8 Miles	3015169	4431472	HSIP (Section 148)	Rural Major Collector	2090	75	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(226)HE S	Roadway Pavement surface - high friction surface	10 Miles	1879324	1879324	HSIP (Section 148)	Rural Major Collector	973	55	State Highway Agency	Roadway Departure	Provide progressive levels of treatment for curves
STP 1502(225)HE S	Shoulder treatments	8 Miles	1008897	1008897	HSIP (Section 148)	Rural Major Collector	113	55	State Highway Agency	Roadway Departure	Increase the use of

S	Widen shoulder - paved or other				148)	Collector			Agency		paved shoulders on FM roads to
STP 1502(227)HE S	Roadway Pavement surface - high friction surface	11 Miles	1904823	1904823	HSIP (Section 148)	Rural Minor Collector	317	55	State Highway Agency	Roadway Departure	Provide progressive levels of treatment for curves
STP 1502(231)HE S	Shoulder treatments Widen shoulder - paved or other	5 Miles	1655300	1655300	HSIP (Section 148)	Rural Minor Arterial	2440	65	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(232)HE S	Shoulder treatments Widen shoulder - paved or other	6 Miles	1301346	1301346	HSIP (Section 148)	Rural Minor Collector	688	60	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(229)HE S	Shoulder treatments Widen shoulder - paved or other	2 Miles	727007	727007	HSIP (Section 148)	Rural Major Collector	673	60	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(233)HE S	Roadway Roadway widening - add lane(s) along segment	2 Miles	700686	700686	HSIP (Section 148)	Rural Major Collector	11261	65	State Highway Agency	Lane Departure	Widen roadways to increase control and recovery ar

STP 1502(230)HE S	Shoulder treatments Widen shoulder - paved or other	2 Miles	1023264	1023264	HSIP (Section 148)	Rural Major Collector	3813	65	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(512)HE S & STP 1502(513)HE S	Roadway Roadway widening - add lane(s) along segment	1 Miles	117701	117701	HSIP (Section 148)	Rural Principal Arterial - Other	12603	45	State Highway Agency	Lane Departure	Widen roadways to increase control and recovery ar
STP 1502(310)HE S	Shoulder treatments Widen shoulder - paved or other	1 Miles	920045	920045	HSIP (Section 148)	Rural Minor Collector	1171	55	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(143)HE S	Roadway Roadway widening - add lane(s) along segment	3 Miles	1788921	1788921	HSIP (Section 148)	Rural Minor Arterial	7344	75	State Highway Agency	Lane Departure	Install passing lanes.
STP 1502(379)HE S	Roadway Roadway widening - travel lanes	8 Miles	6114806	6114806	HSIP (Section 148)	Rural Major Collector	271	70	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(151)HE S	Shoulder treatments Widen shoulder -	4 Miles	1418999	1418999	HSIP (Section 148)	Rural Minor Collector	620	70	State Highway Agency	Roadway Departure	Increase the use of paved shoulders

	paved or other										on FM roads to
STP 1502(242)HE S & STP 1502(243)HE S	Shoulder treatments Widen shoulder - paved or other	6 Miles	3051355	3051355	HSIP (Section 148)	Rural Major Collector	185	70	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 2015(895)HE S	Shoulder treatments Widen shoulder - paved or other	2 Miles	747427	747427	HSIP (Section 148)	Rural Major Collector	328	70	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(153)HE S	Shoulder treatments Widen shoulder - paved or other	6 Miles	2960534	2960534	HSIP (Section 148)	Rural Minor Collector	2736	70	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(152)HE S	Shoulder treatments Widen shoulder - paved or other	7 Miles	2602993	2602993	HSIP (Section 148)	Rural Major Collector	737	60	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(150)HE S	Shoulder treatments Widen shoulder - paved or other	9 Miles	1714386	1714386	HSIP (Section 148)	Rural Major Collector	3043	70	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP	Shoulder	1 Miles	686680	686680	HSIP	Rural	456	70	State	Roadway	Increase

1502(074)HE S	treatments Widen shoulder - paved or other				(Section 148)	Major Collector			Highway Agency	Departure	the use of paved shoulders on FM roads to
STP 1502(442)HE S	Roadway Roadway widening - add lane(s) along segment	5 Miles	2830324	2830324	HSIP (Section 148)	Rural Major Collector	4013	70	State Highway Agency	Lane Departure	Install passing lanes.
STP 1502(244)HE S	Shoulder treatments Widen shoulder - paved or other	2 Miles	1064191	1064191	HSIP (Section 148)	Rural Major Collector	3844	70	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(245)HE S	Shoulder treatments Widen shoulder - paved or other	2 Miles	1168693	1168693	HSIP (Section 148)	Rural Major Collector	1084	65	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(032)HE S, STP 1502(033)HE S, STP 2015(777)H	Roadway Roadway widening - travel lanes	8 Miles	2514788	2514788	HSIP (Section 148)	Rural Principal Arterial - Interstate	122708	75	State Highway Agency	Roadway Departure	Install more pavement width to allow edge lines
STP 2015(773)HE S, STP 2015(771)HE S, STP	Roadway Roadway widening - travel lanes	9 Miles	3546029	3546029	HSIP (Section 148)	Rural Principal Arterial - Interstate	24819	75	State Highway Agency	Roadway Departure	Install more pavement width to allow edge

2015(772)H											lines
STP 1502(432)HE S	Roadway Roadway widening - add lane(s) along segment	16 Miles	2071173	2071173	HSIP (Section 148)	Rural Major Collector	2191	75	State Highway Agency	Lane Departure	Install passing lanes.
STP 1502(241)HE S	Shoulder treatments Widen shoulder - paved or other	4 Miles	1996043	1996043	HSIP (Section 148)	Rural Major Collector	344	55	State Highway Agency	Roadway Departure	Install more pavement width to allow edge lines
STP 1502(429)HE S, STP 1502(430)HE S & STP 1502(431)	Roadway Roadway widening - add lane(s) along segment	19 Miles	2042999	2042999	HSIP (Section 148)	Rural Minor Arterial	8818	75	State Highway Agency	Roadway Departure	Widen roadways to increase control and recovery ar
STP 1502(575)HE S & STP 1502(577)HE S	Roadway Roadway widening - add lane(s) along segment	25 Miles	7207873	7207873	HSIP (Section 148)	Rural Major Collector	12601	70	State Highway Agency	Lane Departure	Install passing lanes.
STP 1502(434)HE S & STP 1502(435)HE S	Shoulder treatments Widen shoulder - paved or other	2 Miles	2316428	2316428	HSIP (Section 148)	Rural Principal Arterial - Other	12163	75	State Highway Agency	Roadway Departure	Widen roadways to increase control and recovery ar
STP 1502(394)HE	Roadside Barrier-	4 Miles	1289444	1289444	HSIP (Section	Rural Minor	1934	55	State Highway	Roadway Departure	Continue to remove

S	metal				148)	Collector			Agency		trees, relocate utility poles,
STP 1502(370)HE S	Roadway Roadway widening - add lane(s) along segment	15 Miles	2016637	2016637	HSIP (Section 148)	Rural Principal Arterial - Other	1888	75	State Highway Agency	Lane Departure	Install passing lanes.
STP 1502(371)HE S	Roadway Roadway widening - add lane(s) along segment	16 Miles	1104578	1104578	HSIP (Section 148)	Urban Principal Arterial - Other Freeways and Expressways	1725	75	State Highway Agency	Lane Departure	Install passing lanes.
STP 1502(545)HE S	Shoulder treatments Widen shoulder - paved or other	9 Miles	8282797	8282797	HSIP (Section 148)	Urban Minor Arterial	1381	60	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(541)HE S	Roadway Pavement surface - high friction surface	1 Miles	6592271	6592271	HSIP (Section 148)	Urban Principal Arterial - Other Freeways and Expressways	5341	75	State Highway Agency	Roadway Departure	Provide progressive levels of treatment for curves
STP 1502(606)HE	Shoulder treatments	10 Miles	10198541	10198541	HSIP (Section	Urban Minor	38542	55	State Highway	Roadway Departure	Increase the use of

S	Widen shoulder - paved or other				148)	Collector			Agency		paved shoulders on FM roads to
STP 2015(767)HE S	Shoulder treatments Widen shoulder - paved or other	1 Miles	785899	785899	HSIP (Section 148)	Urban Minor Arterial	5888	75	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(459)HE S	Shoulder treatments Widen shoulder - paved or other	6 Miles	3634869	3634869	HSIP (Section 148)	Rural Major Collector	453	55	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 2013(519)HE S	Shoulder treatments Widen shoulder - paved or other	2 Miles	1021896	1021896	HSIP (Section 148)	Rural Major Collector	1255	55	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(455)HE S	Shoulder treatments Widen shoulder - paved or other	6 Miles	2173204	3036840	HSIP (Section 148)	Rural Minor Collector	5063	70	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(458)HE S	Shoulder treatments Widen shoulder - paved or other	8 Miles	2395854	3007204	HSIP (Section 148)	Rural Minor Collector	353	60	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to

STP 1502(255)HE S	Intersection geometry Auxiliary lanes - add left-turn lane	1 Numbers	65602	65602	HSIP (Section 148)	Rural Minor Arterial	5055	75	State Highway Agency	Intersections	Add more turn bays and acceleration lanes on high-
STP 2015(899)HE S	Intersection geometry Auxiliary lanes - add left-turn lane	1 Miles	298953	298953	HSIP (Section 148)	Urban Principal Arterial - Other	16850	75	State Highway Agency	Intersections	Add more turn bays and acceleration lanes on high-
STP 1502(211)HE S	Intersection geometry Auxiliary lanes - add left-turn lane	1 Miles	454143	454143	HSIP (Section 148)	Rural Principal Arterial - Other	27521	65	State Highway Agency	Intersections	Add more turn bays and acceleration lanes on high-
STP 1502(550)HE S	Intersection geometry Auxiliary lanes - add left-turn lane	1 Miles	450927	450927	HSIP (Section 148)	Rural Principal Arterial - Other	4186	70	State Highway Agency	Intersections	Add more turn bays and acceleration lanes on high-
STP 1502(551)HE S	Intersection geometry Auxiliary lanes - add left-turn lane	1 Numbers	345019	345019	HSIP (Section 148)	Rural Principal Arterial - Other	4186	70	State Highway Agency	Intersections	Add more turn bays and acceleration lanes on high-
STP 1502(267)HE S	Intersection geometry Auxiliary lanes - add	1 Numbers	379385	379385	HSIP (Section 148)	Urban Principal Arterial - Other	7655	55	State Highway Agency	Intersections	Add more turn bays and acceleration

	left-turn lane										n lanes on high-
STP 1502(278)HE S	Shoulder treatments Widen shoulder - paved or other	4 Miles	2348774	2348774	HSIP (Section 148)	Rural Major Collector	1214	60	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(283)HE S	Shoulder treatments Widen shoulder - paved or other	4 Miles	1828896	1828896	HSIP (Section 148)	Rural Major Collector	3553	55	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(279)HE S	Shoulder treatments Widen shoulder - paved or other	5 Miles	2795780	2795780	HSIP (Section 148)	Rural Major Collector	1937	60	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(280)HE S	Shoulder treatments Widen shoulder - paved or other	3 Miles	2354944	2354944	HSIP (Section 148)	Rural Major Collector	2309	60	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(282)HE S	Shoulder treatments Widen shoulder - paved or other	2 Miles	1250437	1250437	HSIP (Section 148)	Rural Major Collector	3531	55	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP	Shoulder	4 Miles	2252223	2252223	HSIP	Rural	961	60	State	Roadway	Increase

1502(286)HE S	treatments Widen shoulder - paved or other				(Section 148)	Major Collector			Highway Agency	Departure	the use of paved shoulders on FM roads to
STP 1502(281)HE S	Intersection geometry Auxiliary lanes - add left-turn lane	3 Miles	6661253	6661253	HSIP (Section 148)	Rural Principal Arterial - Other	24041	70	State Highway Agency	Intersectio ns	Add more turn bays and acceleratio n lanes on high-
STP 1502(565)HE S	Intersection geometry Auxiliary lanes - add left-turn lane	3 Miles	2000000	2346791	HSIP (Section 148)	Rural Minor Arterial	2248	75	State Highway Agency	Intersectio ns	Add more turn bays and acceleratio n lanes on high-
STP 1502(100)HE S	Shoulder treatments Widen shoulder - paved or other	2 Miles	1225606	1225606	HSIP (Section 148)	Rural Major Collector	1330	55	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(099)HE S	Shoulder treatments Widen shoulder - paved or other	7 Miles	1215642	1215642	HSIP (Section 148)	Rural Major Collector	391	60	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(101)HE S	Shoulder treatments Widen shoulder - paved or	2 Miles	1005765	1005765	HSIP (Section 148)	Rural Major Collector	4744	55	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM

	other										roads to
STP 1502(098)HE S	Shoulder treatments Widen shoulder - paved or other	4 Miles	1719223	1719223	HSIP (Section 148)	Rural Major Collector	2592	55	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(478)HE S	Shoulder treatments Widen shoulder - paved or other	7 Miles	3954433	3954433	HSIP (Section 148)	Rural Major Collector	3124	60	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(477)HE S	Roadside Barrier-metal	8 Miles	5170038	5170038	HSIP (Section 148)	Rural Major Collector	2833	65	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 1502(221)HE S & STP 1502(222)HE S	Intersection traffic control Modify traffic signal - add flashing yellow arrow	7 Miles	190935	190935	HSIP (Section 148)	Urban Principal Arterial - Other	22634	75	State Highway Agency	Intersections	Enhance advance warning at intersections throughout
STP 1502(220)HE S	Intersection traffic control Modify traffic signal - add	1 Numbers	50630	50630	HSIP (Section 148)	Urban Principal Arterial - Other	11763	75	State Highway Agency	Intersections	Enhance advance warning at intersections throughout

	flashing yellow arrow										
STP 1502(223)HE S	Intersection traffic control Modify traffic signal - add flashing yellow arrow	2 Miles	77250	77250	HSIP (Section 148)	Urban Principal Arterial - Other	16888	55	State Highway Agency	Intersections	Enhance advance warning at intersections throughout
STP 1502(219)HE S	Intersection traffic control Modify traffic signal - add flashing yellow arrow	5 Miles	169965	169965	HSIP (Section 148)	Urban Principal Arterial - Other	5531	55	State Highway Agency	Intersections	Enhance advance warning at intersections throughout
STP 1502(589)HE S & STP 1502(590)HE S	Roadside Barrier - other	1 Miles	589505	589505	HSIP (Section 148)	Urban Principal Arterial - Other Freeways and Expressways	68388	55	State Highway Agency	Lane Departure	Install more concrete and cable median barriers.
STP 2016(200)HE S	Roadway Rumble strips - center	10 Miles	58021	58021	HSIP (Section 148)	Rural Minor Arterial	1381	75	State Highway Agency	Lane Departure	Continue to install shoulder and centerline rumble
STP 2016(197)HE	Roadway Rumble	33 Miles	180501	180501	HSIP (Section	Rural Minor	857	75	State Highway	Lane Departure	Continue to install

S, STP 2016(196)HE S & STP 2016(195)	strips - center				148)	Arterial			Agency		shoulder and centerline rumble
STP 2016(154)HE S, STP 2016(202)HE S & STP 2016(201)	Roadway Rumble strips - center	32 Miles	203634	203634	HSIP (Section 148)	Rural Minor Arterial	952	75	State Highway Agency	Lane Departure	Continue to install shoulder and centerline rumble
STP 2016(199)HE S	Roadway Rumble strips - center	16 Miles	95192	95192	HSIP (Section 148)	Rural Minor Arterial	879	75	State Highway Agency	Lane Departure	Continue to install shoulder and centerline rumble
STP 2016(198)HE S	Roadway Rumble strips - center	16 Miles	162632	162632	HSIP (Section 148)	Rural Minor Arterial	1168	75	State Highway Agency	Lane Departure	Continue to install shoulder and centerline rumble
STP 1502(416)HE S	Roadside Barrier- metal	5 Miles	529200	529200	HSIP (Section 148)	Rural Minor Collector	2736	70	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 1502(179)HE S & STP 1502(180)HE S	Roadway Rumble strips - edge or shoulder	16 Miles	221297	221297	HSIP (Section 148)	Rural Major Collector	1747	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble

STP 1502(177)HE S & STP 1502(178)HE S	Roadway Rumble strips - edge or shoulder	18 Miles	197924	197924	HSIP (Section 148)	Rural Minor Arterial	31350	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(893)HE S & STP 2015(894)HE S	Roadway Rumble strips - edge or shoulder	13 Miles	95254	95254	HSIP (Section 148)	Rural Minor Arterial	15152	75	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(638)HE S	Roadway Rumble strips - edge or shoulder	12 Miles	79213	79213	HSIP (Section 148)	Rural Minor Arterial	8831	60	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(891)HE S & STP 2015(892)HE S	Roadway Rumble strips - edge or shoulder	20 Miles	173430	173430	HSIP (Section 148)	Rural Minor Arterial	6897	75	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 1502(396)HE S	Roadway Rumble strips - edge or shoulder	20 Miles	20462	20462	HSIP (Section 148)	Rural Major Collector	840	75	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 1502(395)HE S	Roadway Rumble strips - edge or shoulder	13 Miles	13447	13447	HSIP (Section 148)	Rural Major Collector	3819	75	State Highway Agency	Roadway Departure	Continue to install shoulder and

											centerline rumble
STP 2016(357)HE S	Roadway Rumble strips - center	8 Miles	94374	94374	HSIP (Section 148)	Urban Major Collector	9122	55	State Highway Agency	Lane Departure	Continue to install shoulder and centerline rumble
STP 2016(356)HE S	Roadway Rumble strips - center	3 Miles	51722	51722	HSIP (Section 148)	Urban Principal Arterial - Other	35358	55	City of Municipal Highway Agency	Lane Departure	Continue to install shoulder and centerline rumble
STP 1502(257)HE S	Roadside Barrier-metal	2 Miles	360259	360259	HSIP (Section 148)	Rural Major Collector	1255	55	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2016(056)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	11190	11190	HSIP (Section 148)	Urban Principal Arterial - Other	45486	55	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2016(420)HE S	Roadside Roadside - other	14 Miles	206115	206115	HSIP (Section 148)	Rural Principal Arterial - Other	10472	75	State Highway Agency	Roadway Departure	Continue to remove trees, relocate

											utility poles,
STP 2016(421)HE S	Roadside Roadside - other	10 Miles	89286	89286	HSIP (Section 148)	Urban Principal Arterial - Other	26685	75	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2016(055)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	43139	43139	HSIP (Section 148)	Rural Principal Arterial - Other	10269	60	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2016(057)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	32522	32522	HSIP (Section 148)	Urban Principal Arterial - Other	10722	55	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2016(068)HE S	Intersection traffic control Intersection flashers - add advance	1 Numbers	86412	86412	HSIP (Section 148)	Rural Major Collector	1668	70	State Highway Agency	Intersections	Enhance advanced warning at intersections through

	intersection warning sign-mounted										
STP 2016(070)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	44244	44244	HSIP (Section 148)	Rural Major Collector	6530	45	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2016(066)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	112558	112558	HSIP (Section 148)	Urban Principal Arterial - Other	19857	45	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2016(069)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	35071	35071	HSIP (Section 148)	Urban Principal Arterial - Other	9389	35	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2016(067)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	36979	36979	HSIP (Section 148)	Urban Principal Arterial - Other	21838	50	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2016(167)HE	Intersection traffic	1 Numbers	52783	52783	HSIP (Section	Rural Major	1432	70	State Highway	Intersections	Enhance advanced

S	control Intersection traffic control - other	rs			148)	Collector			Agency		warning at intersections through
STP 2016(170)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	52710	52710	HSIP (Section 148)	Rural Principal Arterial - Other	594	75	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2016(172)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	50791	50791	HSIP (Section 148)	Rural Minor Collector	2382	75	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2016(166)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	53113	53113	HSIP (Section 148)	Rural Major Collector	4079	65	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2016(160)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	52166	52166	HSIP (Section 148)	Rural Principal Arterial - Other	8275	75	State Highway Agency	Intersections	Enhance advanced warning at intersections through

STP 2016(161)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	57665	57665	HSIP (Section 148)	Urban Principal Arterial - Other	14135	75	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2016(162)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	71964	71964	HSIP (Section 148)	Rural Principal Arterial - Other	20661	75	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2016(297)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	194592	194592	HSIP (Section 148)	Urban Principal Arterial - Interstate	16529 2	60	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2016(299)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	63156	63156	HSIP (Section 148)	Rural Major Collector	1926	55	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2016(298)HE S	Intersection traffic control	1 Numbers	84931	84931	HSIP (Section 148)	Rural Major Collector	4850	70	State Highway Agency	Intersections	Enhance advanced warning at

	Intersection traffic control - other										intersections through
STP 2016(037)HE S, STP 2016(038)HE S & STP 2016(039)	Roadway Rumble strips - center	28 Miles	141818	141818	HSIP (Section 148)	Rural Minor Arterial	3222	75	State Highway Agency	Lane Departure	Continue to install shoulder and centerline rumble
STP 2016(036)HE S	Roadway Rumble strips - center	12 Miles	64093	64093	HSIP (Section 148)	Rural Major Collector	1676	70	State Highway Agency	Lane Departure	Continue to install shoulder and centerline rumble
STP 2016(034)HE S & STP 2016(035)HE S	Roadway Rumble strips - center	12 Miles	65737	65737	HSIP (Section 148)	Rural Major Collector	1000	75	State Highway Agency	Lane Departure	Continue to install shoulder and centerline rumble
STP 2016(033)HE S	Roadway Rumble strips - center	8 Miles	38556	38556	HSIP (Section 148)	Rural Minor Arterial	5244	55	State Highway Agency	Lane Departure	Continue to install shoulder and centerline rumble
STP 2016(030)HE S, STP 2016(031)HE S & STP 2016(040)	Roadway Rumble strips - center	22 Miles	145885	145885	HSIP (Section 148)	Rural Major Collector	4862	75	State Highway Agency	Lane Departure	Continue to install shoulder and centerline rumble

STP 2016(032)HE S	Roadway Rumble strips - center	12 Miles	79654	79654	HSIP (Section 148)	Rural Principal Arterial - Other	3137	75	State Highway Agency	Lane Departure	Continue to install shoulder and centerline rumble
STP 2016(430)HE S	Roadside Roadside - other	1 Miles	170325	170325	HSIP (Section 148)	Rural Major Collector	4265	60	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2016(431)HE S	Roadside Roadside - other	3 Miles	174465	174465	HSIP (Section 148)	Rural Major Collector	1207	60	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2016(051)HE S & STP 2016(052)HE S	Roadway Rumble strips - edge or shoulder	16 Miles	84875	84875	HSIP (Section 148)	Rural Major Collector	6087	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2016(432)HE S	Roadway Superelevati on / cross slope	2 Miles	217162	217162	HSIP (Section 148)	Rural Major Collector	639	60	State Highway Agency	Roadway Departure	Use 30 degree slope or safety wedge for pavement e
STP 2016(053)HE S	Roadway Rumble strips - edge	9 Miles	25158	25158	HSIP (Section 148)	Rural Minor Arterial	15435	55	State Highway Agency	Roadway Departure	Continue to install shoulder

	or shoulder										and centerline rumble
STP 2016(049)HE S & STP 2016(050)HE S	Roadway Rumble strips - unspecified or other	18 Miles	49651	49651	HSIP (Section 148)	Rural Minor Arterial	7276	70	State Highway Agency	Lane Departure	Continue to install shoulder and centerline rumble
STP 2016(387)HE S	Lighting Continuous roadway lighting	3 Miles	1425325	1425325	HSIP (Section 148)	Urban Principal Arterial - Interstate	138426	70	State Highway Agency	Intersections	Eliminate limited sight distance on all roads. Th
STP 2016(010)HE S	Roadway Rumble strips - edge or shoulder	15 Miles	107797	107797	HSIP (Section 148)	Rural Major Collector	844	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(717)HE S	Roadside Barrier-metal	9 Miles	263702	263702	HSIP (Section 148)	Rural Major Collector	767	60	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2015(719)HE S	Shoulder treatments Widen shoulder - paved or other	6 Miles	3490778	3490778	HSIP (Section 148)	Rural Major Collector	503	60	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to

STP 2015(718)HE S	Shoulder treatments Widen shoulder - paved or other	9 Miles	4031197	4031197	HSIP (Section 148)	Rural Major Collector	767	60	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(058)HE S	Shoulder treatments Widen shoulder - paved or other	10 Miles	4218820	4218820	HSIP (Section 148)	Rural Major Collector	971	60	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 2015(389)HE S	Shoulder treatments Widen shoulder - paved or other	14 Miles	3992529	5387952	HSIP (Section 148)	Rural Major Collector	296	75	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(528)HE S	Shoulder treatments Widen shoulder - paved or other	15 Miles	3407580	5587641	HSIP (Section 148)	Rural Major Collector	911	65	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 2014(627)HE S	Shoulder treatments Widen shoulder - paved or other	9 Miles	2191916	2191916	HSIP (Section 148)	Rural Major Collector	494	70	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 2015(875)HE S	Shoulder treatments Widen shoulder -	7 Miles	4534926	4534926	HSIP (Section 148)	Urban Major Collector	637	55	State Highway Agency	Roadway Departure	Increase the use of paved shoulders

	paved or other										on FM roads to
STP 1502(328)HE S	Shoulder treatments Widen shoulder - paved or other	7 Miles	4766905	9549753	HSIP (Section 148)	Rural Major Collector	2099	55	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 2015(655)HE S	Shoulder treatments Widen shoulder - paved or other	6 Miles	3575000	4975101	HSIP (Section 148)	Rural Minor Arterial	1457	60	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(559)HE S	Roadway Roadway widening - travel lanes	6 Miles	1605498	3143042	HSIP (Section 148)	Rural Major Collector	5065	55	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 2015(852)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	177985	177985	HSIP (Section 148)	Urban Principal Arterial - Other	37542	65	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2015(962)HR R	Roadway Rumble strips - edge or shoulder	15 Miles	65311	65311	HRRRP (SAFETE A-LU)	Rural Minor Arterial	3018	65	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble

STP 2015(999)HR R	Roadway Rumble strips - center	17 Miles	90564	90564	HRRRP (SAFETE A-LU)	Rural Major Collector	1161	65	State Highway Agency	Lane Departure	Continue to install shoulder and centerline rumble
STP 2015(982)HR R	Roadway Rumble strips - edge or shoulder	16 Miles	83854	83854	HRRRP (SAFETE A-LU)	Rural Major Collector	2086	65	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(991)HR R	Roadway Rumble strips - edge or shoulder	30 Miles	155439	155439	HRRRP (SAFETE A-LU)	Rural Major Collector	3920	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(968)HR R	Roadway Rumble strips - edge or shoulder	14 Miles	71767	71767	HRRRP (SAFETE A-LU)	Rural Major Collector	3413	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 1502(006)HE S	Roadside Barrier- metal	15 Miles	305998	305998	HSIP (Section 148)	Rural Minor Arterial	28347	75	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2015(970)HE S	Roadway Rumble strips - edge or shoulder	5 Miles	26267	26267	HSIP (Section 148)	Rural Minor Collector	2876	70	State Highway Agency	Roadway Departure	Continue to install shoulder and

											centerline rumble
STP 2015(961)HE S	Roadway Rumble strips - edge or shoulder	7 Miles	11349	11349	HSIP (Section 148)	Urban Principal Arterial - Other	17038	60	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(971)HE S	Roadway Rumble strips - edge or shoulder	7 Miles	10208	10208	HSIP (Section 148)	Rural Principal Arterial - Other	32965	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(994)HE S	Roadway Rumble strips - edge or shoulder	18 Miles	91886	91886	HSIP (Section 148)	Rural Major Collector	1775	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(963)HE S	Roadway Rumble strips - edge or shoulder	13 Miles	51023	51023	HSIP (Section 148)	Rural Minor Arterial	6583	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(980)HE S	Roadway Rumble strips - edge or shoulder	16 Miles	80253	80253	HSIP (Section 148)	Rural Major Collector	1393	65	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP	Roadway	13	67547	67547	HSIP	Rural	1192	70	State	Roadway	Continue

2015(981)HE S	Rumble strips - edge or shoulder	Miles			(Section 148)	Minor Collector			Highway Agency	Departure	to install shoulder and centerline rumble
STP 2015(978)HE S	Roadway Rumble strips - edge or shoulder	11 Miles	58019	58019	HSIP (Section 148)	Rural Major Collector	1314	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(972)HE S	Roadway Rumble strips - edge or shoulder	8 Miles	39211	39211	HSIP (Section 148)	Rural Minor Collector	456	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 1502(001)HE S	Roadway Rumble strips - center	5 Miles	4708	4708	HSIP (Section 148)	Rural Principal Arterial - Other	11175	55	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 2015(953)HE S	Roadway Rumble strips - edge or shoulder	9 Miles	32994	32994	HSIP (Section 148)	Rural Minor Arterial	8594	60	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 1502(552)HE S	Intersection traffic control Intersection traffic	1 Numbers	142990	142990	HSIP (Section 148)	Urban Principal Arterial - Other Freeways	52020	75	State Highway Agency	Intersections	Enhance advanced warning at intersections through

	control - other					and Expressways					
STP 1502(012)HE S	Roadway Superelevation / cross slope	2 Miles	1787891	1787891	HSIP (Section 148)	Rural Major Collector	1199	65	State Highway Agency	Roadway Departure	Provide progressive levels of treatment for curves
STP 1502(002)HE S	Roadway Rumble strips - center	7 Miles	49154	49154	HSIP (Section 148)	Rural Major Collector	4872	70	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 2015(965)HE S	Roadway Rumble strips - edge or shoulder	7 Miles	38012	38012	HSIP (Section 148)	Rural Major Collector	4872	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 1502(003)HE S	Roadway Rumble strips - center	14 Miles	43587	43587	HSIP (Section 148)	Rural Minor Arterial	6735	70	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 2015(989)HE S	Roadway Rumble strips - edge or shoulder	14 Miles	21157	21157	HSIP (Section 148)	Rural Minor Arterial	6735	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP	Roadway	6 Miles	8417	8417	HSIP	Rural	12644	70	State	Roadway	Continue

2015(990)HE S	Rumble strips - edge or shoulder				(Section 148)	Minor Arterial			Highway Agency	Departure	to install shoulder and centerline rumble
STP 2015(992)HE S	Roadway Rumble strips - edge or shoulder	22 Miles	114857	114857	HSIP (Section 148)	Rural Minor Collector	1413	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(966)HE S	Roadway Rumble strips - edge or shoulder	17 Miles	12406	12406	HSIP (Section 148)	Rural Minor Arterial	8581	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(967)HE S	Roadway Rumble strips - edge or shoulder	16 Miles	3613	3613	HSIP (Section 148)	Rural Principal Arterial - Other	9859	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(983)HE S	Roadway Rumble strips - edge or shoulder	12 Miles	18806	18806	HSIP (Section 148)	Rural Principal Arterial - Other	12371	60	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(946)HE S	Roadway Rumble strips - edge or shoulder	13 Miles	19726	19726	HSIP (Section 148)	Rural Principal Arterial - Other	5980	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline

											rumble
STP 2015(998)HE S	Roadway Rumble strips - center	13 Miles	32191	32191	HSIP (Section 148)	Rural Principal Arterial - Other	5980	70	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 2015(988)HE S	Roadway Rumble strips - edge or shoulder	10 Miles	50038	50038	HSIP (Section 148)	Rural Major Collector	946	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(969)HE S	Roadway Rumble strips - edge or shoulder	7 Miles	37084	37084	HSIP (Section 148)	Rural Minor Collector	472	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(997)HE S	Roadway Rumble strips - center	14 Miles	40053	40053	HSIP (Section 148)	Rural Principal Arterial - Other	5126	70	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 2015(979)HE S	Roadway Rumble strips - edge or shoulder	20 Miles	74453	74453	HSIP (Section 148)	Rural Major Collector	8342	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(957)HE	Roadway Rumble	7 Miles	10693	10693	HSIP (Section	Rural Minor	4597	55	State Highway	Roadway Departure	Continue to install

S	strips - edge or shoulder				148)	Arterial			Agency		shoulder and centerline rumble
STP 2015(984)HE S	Roadway Rumble strips - edge or shoulder	13 Miles	386	386	HSIP (Section 148)	Rural Principal Arterial - Other	6931	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(938)HE S	Roadway Rumble strips - edge or shoulder	6 Miles	32658	32658	HSIP (Section 148)	Rural Major Collector	1610	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(939)HE S	Roadway Rumble strips - edge or shoulder	10 Miles	51569	51569	HSIP (Section 148)	Rural Major Collector	2169	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(940)HE S	Roadway Rumble strips - edge or shoulder	8 Miles	41592	41592	HSIP (Section 148)	Rural Major Collector	1864	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(941)HE S	Roadway Rumble strips - edge or shoulder	12 Miles	63396	63396	HSIP (Section 148)	Rural Major Collector	2437	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble

STP 2015(943)HE S	Roadway Rumble strips - edge or shoulder	13 Miles	65469	65469	HSIP (Section 148)	Rural Minor Collector	2069	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(944)HE S	Roadway Rumble strips - edge or shoulder	8 Miles	38706	38706	HSIP (Section 148)	Rural Major Collector	1826	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(945)HE S	Roadway Rumble strips - edge or shoulder	6 Miles	9486	9486	HSIP (Section 148)	Rural Principal Arterial - Other	5949	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(947)HE S	Roadway Rumble strips - edge or shoulder	6 Miles	9926	9926	HSIP (Section 148)	Rural Principal Arterial - Other	5225	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(976)HE S	Roadway Rumble strips - edge or shoulder	12 Miles	17857	17857	HSIP (Section 148)	Rural Principal Arterial - Other	6198	60	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(985)HE S	Roadway Rumble strips - edge or shoulder	13 Miles	66152	66152	HSIP (Section 148)	Rural Major Collector	6018	55	State Highway Agency	Roadway Departure	Continue to install shoulder and

											centerline rumble
STP 2015(948)HE S	Roadway Rumble strips - edge or shoulder	6 Miles	29457	29457	HSIP (Section 148)	Rural Major Collector	3284	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(949)HE S	Roadway Rumble strips - edge or shoulder	12 Miles	52649	52649	HSIP (Section 148)	Rural Minor Collector	1891	65	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(964)HE S	Roadway Rumble strips - edge or shoulder	9 Miles	43284	43284	HSIP (Section 148)	Rural Minor Collector	952	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(950)HE S	Roadway Rumble strips - edge or shoulder	17 Miles	26300	26300	HSIP (Section 148)	Rural Principal Arterial - Other	7555	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(951)HE S	Roadway Rumble strips - edge or shoulder	9 Miles	14137	14137	HSIP (Section 148)	Rural Principal Arterial - Other	6337	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP	Roadway	16	82449	82449	HSIP	Rural	8013	70	State	Roadway	Continue

2015(952)HE S	Rumble strips - edge or shoulder	Miles			(Section 148)	Major Collector			Highway Agency	Departure	to install shoulder and centerline rumble
STP 2015(986)HE S	Roadway Rumble strips - edge or shoulder	9 Miles	44199	44199	HSIP (Section 148)	Rural Major Collector	1610	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(958)HE S	Roadway Rumble strips - edge or shoulder	14 Miles	74546	74546	HSIP (Section 148)	Rural Major Collector	4627	60	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(955)HE S	Roadway Rumble strips - edge or shoulder	5 Miles	25088	25088	HSIP (Section 148)	Rural Major Collector	2844	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(987)HE S	Roadway Rumble strips - edge or shoulder	18 Miles	93340	93340	HSIP (Section 148)	Rural Minor Collector	3852	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(954)HE S	Roadway Rumble strips - edge or shoulder	9 Miles	44919	44919	HSIP (Section 148)	Rural Major Collector	4856	60	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline

											rumble
STP 2015(973)HE S	Roadway Rumble strips - edge or shoulder	14 Miles	72070	72070	HSIP (Section 148)	Rural Major Collector	2448	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(974)HE S	Roadway Rumble strips - edge or shoulder	15 Miles	31980	31980	HSIP (Section 148)	Rural Major Collector	2885	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(975)HE S	Roadway Rumble strips - edge or shoulder	6 Miles	21413	21413	HSIP (Section 148)	Urban Principal Arterial - Other	11177	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(993)HE S	Roadway Rumble strips - edge or shoulder	17 Miles	9639	9639	HSIP (Section 148)	Rural Minor Arterial	19542	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(956)HE S	Roadway Rumble strips - edge or shoulder	18 Miles	76824	76824	HSIP (Section 148)	Rural Minor Arterial	19273	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(959)HE	Roadway Rumble	16 Miles	51802	51802	HSIP (Section	Urban Minor	22479	70	State Highway	Roadway Departure	Continue to install

S	strips - edge or shoulder				148)	Arterial			Agency		shoulder and centerline rumble
STP 2015(960)HE S	Roadway Rumble strips - edge or shoulder	8 Miles	36833	36833	HSIP (Section 148)	Rural Major Collector	1417	65	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(977)HE S	Roadway Rumble strips - edge or shoulder	11 Miles	16707	16707	HSIP (Section 148)	Rural Principal Arterial - Other	7400	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 1502(007)HE S	Roadside Barrier-metal	13 Miles	818479	818479	HSIP (Section 148)	Rural Principal Arterial - Other	4329	65	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 1502(224)HR R	Roadway Rumble strips - center	20 Miles	601875	601875	HRRRP (SAFETE A-LU)	Rural Major Collector	1277	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2016(078)HE S	Roadway Rumble strips - unspecified or other	12 Miles	598033	598033	HSIP (Section 148)	Rural Minor Arterial	7196	55	State Highway Agency	Lane Departure	Continue to install shoulder and centerline rumble

STP 2016(076)HE S	Roadway Rumble strips - unspecified or other	6 Miles	285722	285722	HSIP (Section 148)	Rural Minor Arterial	3687	70	State Highway Agency	Lane Departure	Continue to install shoulder and centerline rumble
STP 2016(287)HE S	Roadway Rumble strips - edge or shoulder	16 Miles	761634	761634	HSIP (Section 148)	Rural Minor Collector	934	55	State Highway Agency	Lane Departure	Continue to install shoulder and centerline rumble
STP 2016(286)HE S	Roadway Rumble strips - edge or shoulder	7 Miles	339019	339019	HSIP (Section 148)	Rural Major Collector	449	55	State Highway Agency	Lane Departure	Continue to install shoulder and centerline rumble
STP 2016(338)HE S	Roadside Barrier- metal	16 Miles	1162910	1162910	HSIP (Section 148)	Rural Major Collector	258	55	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2016(138)HE SG	Roadway Rumble strips - edge or shoulder	16 Miles	599849	599849	HSIP (Section 148)	Rural Major Collector	258	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 1502(013)HE S	Roadside Barrier- metal	4 Miles	565353	565353	HSIP (Section 148)	Rural Major Collector	403	55	State Highway Agency	Roadway Departure	Continue to remove trees, relocate

											utility poles,
STP 2016(139)HE SG & STP 2016(140)HE SG	Roadway Rumble strips - edge or shoulder	9 Miles	296874	296874	HSIP (Section 148)	Rural Minor Collector	835	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(674)HE S	Roadway Rumble strips - center	4 Miles	13943	13943	HSIP (Section 148)	Rural Major Collector	1014	55	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 2015(662)HE S	Roadway Rumble strips - edge or shoulder	8 Miles	36913	36913	HSIP (Section 148)	Rural Principal Arterial - Other	5341	75	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(659)HE S	Roadway Rumble strips - center	4 Miles	11744	11744	HSIP (Section 148)	Rural Principal Arterial - Other	11385	75	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 2015(658)HE S	Roadway Rumble strips - edge or shoulder	19 Miles	146640	146640	HSIP (Section 148)	Rural Minor Arterial	5980	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP	Roadway	12	55170	55170	HSIP	Rural	5810	70	State	Roadway	Continue

2015(661)HE S	Rumble strips - edge or shoulder	Miles			(Section 148)	Minor Arterial			Highway Agency	Departure	to install shoulder and centerline rumble
STP 2015(660)HE S	Roadway Rumble strips - edge or shoulder	7 Miles	33788	33788	HSIP (Section 148)	Rural Principal Arterial - Other	7507	75	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(672)HE S	Roadway Rumble strips - edge or shoulder	4 Miles	19962	19962	HSIP (Section 148)	Rural Major Collector	9725	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(673)HE S	Roadway Rumble strips - center	5 Miles	17349	17349	HSIP (Section 148)	Urban Major Collector	9725	55	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 2015(667)HE S	Roadway Rumble strips - center	3 Miles	11940	11940	HSIP (Section 148)	Rural Major Collector	22823	65	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 2016(080)HE S	Intersection traffic control Intersection flashers -	1 Numbers	180571	180571	HSIP (Section 148)	Rural Minor Arterial	5762	60	State Highway Agency	Intersections	Enhance advanced warning at intersections through

	add advance intersection warning sign-mounted										
STP 2016(084)HE S	Lighting Continuous roadway lighting	16 Miles	860842	860842	HSIP (Section 148)	Rural Minor Arterial	29238	75	State Highway Agency	Intersections	Eliminate limited sight distance on all roads. Th
STP 2016(081)HE S	Roadway Rumble strips - edge or shoulder	7 Miles	427286	427286	HSIP (Section 148)	Rural Major Collector	3706	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 1502(014)HE S	Roadside Barrier-metal	3 Miles	606939	606939	HSIP (Section 148)	Rural Minor Collector	161	55	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2016(075)HE S	Roadway Rumble strips - edge or shoulder	7 Miles	125491	125491	HSIP (Section 148)	Rural Minor Arterial	6448	65	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2016(073)HE S	Roadway Rumble strips - edge or shoulder	9 Miles	240204	240204	HSIP (Section 148)	Rural Major Collector	3813	60	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline

											rumble
STP 2016(074)HE S	Roadway Rumble strips - unspecified or other	8 Miles	298318	298318	HSIP (Section 148)	Rural Minor Arterial	1451	70	State Highway Agency	Lane Departure	Continue to install shoulder and centerline rumble
STP 2016(082)HE S	Roadway Rumble strips - edge or shoulder	16 Miles	656924	656924	HSIP (Section 148)	Rural Major Collector	858	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2016(077)HE S	Roadway Rumble strips - unspecified or other	18 Miles	945588	945588	HSIP (Section 148)	Rural Principal Arterial - Other	5971	70	State Highway Agency	Lane Departure	Continue to install shoulder and centerline rumble
STP 2016(288)HE S	Roadway Rumble strips - edge or shoulder	7 Miles	339297	339297	HSIP (Section 148)	Rural Major Collector	566	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(482)HE S	Roadway Rumble strips - edge or shoulder	17 Miles	199164	199164	HSIP (Section 148)	Rural Minor Arterial	4791	65	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(843)HE	Roadway Rumble	10 Miles	140622	140622	HSIP (Section	Rural Minor	4842	65	State Highway	Roadway Departure	Continue to install

S	strips - edge or shoulder				148)	Arterial			Agency		shoulder and centerline rumble
STP 2015(420)HR R & STP 2015(421)HR R	Roadside Barrier-metal	23 Miles	639528	1266570	HRRRP (SAFETE A-LU)	Rural Major Collector	335	55	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2015(511)HE S	Roadway Rumble strips - edge or shoulder	12 Miles	116812	116812	HSIP (Section 148)	Urban Principal Arterial - Other	24130	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(515)HE S	Roadway Rumble strips - edge or shoulder	24 Miles	383210	383210	HSIP (Section 148)	Rural Principal Arterial - Other	21050	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(508)HE S	Roadway Rumble strips - edge or shoulder	16 Miles	290797	290797	HSIP (Section 148)	Urban Major Collector	18564	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(516)HE S	Roadway Rumble strips - edge or shoulder	10 Miles	263772	263772	HSIP (Section 148)	Urban Principal Arterial - Other	50980	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble

STP 2015(722)HE S	Intersection traffic control Intersection traffic control - other	1 Numbe rs	288083	288083	HSIP (Section 148)	Urban Minor Arterial	22508	55	State Highway Agency	Intersectio ns	Enhance advanced warning at intersectio ns through
STP 2015(521)HE S	Roadway Rumble strips - edge or shoulder	8 Miles	119417	119417	HSIP (Section 148)	Urban Principal Arterial - Other	11660	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(517)HE S	Roadway Rumble strips - edge or shoulder	11 Miles	497082	497082	HSIP (Section 148)	Urban Principal Arterial - Interstate	97392	75	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(518)HE S	Roadway Rumble strips - edge or shoulder	13 Miles	383620	383620	HSIP (Section 148)	Urban Principal Arterial - Interstate	20694 8	60	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(519)HE S	Roadway Rumble strips - edge or shoulder	8 Miles	262655	262655	HSIP (Section 148)	Urban Principal Arterial - Interstate	24072 0	60	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(520)HE S	Roadway Rumble strips - edge	17 Miles	539019	539019	HSIP (Section 148)	Urban Principal Arterial -	10200	75	State Highway Agency	Roadway Departure	Continue to install shoulder

	or shoulder					Interstate					and centerline rumble
STP 2015(544)HE S	Roadway Rumble strips - edge or shoulder	12 Miles	292424	292424	HSIP (Section 148)	Urban Principal Arterial - Interstate	18146	75	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(501)HE S	Roadway Rumble strips - edge or shoulder	8 Miles	73790	73790	HSIP (Section 148)	Urban Principal Arterial - Other	40779	45	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(503)HE S	Roadway Rumble strips - edge or shoulder	10 Miles	193649	193649	HSIP (Section 148)	Urban Principal Arterial - Other	16583	40	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(522)HE S	Roadway Rumble strips - edge or shoulder	14 Miles	325737	325737	HSIP (Section 148)	Urban Principal Arterial - Other	32018	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(523)HE S	Roadway Rumble strips - edge or shoulder	12 Miles	317847	317847	HSIP (Section 148)	Urban Principal Arterial - Other	40196	65	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble

STP 2015(524)HE S	Roadway Rumble strips - edge or shoulder	12 Miles	355274	355274	HSIP (Section 148)	Urban Principal Arterial - Other Freeways and Expressway s	77270	65	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(525)HE S	Roadway Rumble strips - edge or shoulder	3 Miles	85813	85813	HSIP (Section 148)	Urban Principal Arterial - Other Freeways and Expressway s	35530	60	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(512)HE S	Roadway Rumble strips - edge or shoulder	6 Miles	112717	112717	HSIP (Section 148)	Urban Principal Arterial - Other	10899	40	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(510)HE S	Roadway Rumble strips - edge or shoulder	20 Miles	975053	975053	HSIP (Section 148)	Urban Principal Arterial - Other Freeways and Expressway s	10583 1	60	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(507)HE S	Roadway Rumble strips - edge or shoulder	1 Miles	18491	18491	HSIP (Section 148)	Urban Principal Arterial - Other	32784	45	State Highway Agency	Roadway Departure	Continue to install shoulder and

											centerline rumble
STP 2015(721)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	529404	529404	HSIP (Section 148)	Urban Principal Arterial - Other	39819	55	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2015(502)HE S	Roadway Rumble strips - edge or shoulder	4 Miles	76326	76326	HSIP (Section 148)	Urban Principal Arterial - Other	21105	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 1502(120)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	279667	279667	HSIP (Section 148)	Urban Principal Arterial - Interstate	281887	60	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2015(704)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	229926	229926	HSIP (Section 148)	Urban Principal Arterial - Other Freeways and Expressways	154800	65	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2015(616)HE S	Intersection traffic control Intersection	1 Numbers	293357	293357	HSIP (Section 148)	Urban Principal Arterial - Other	135275	65	State Highway Agency	Intersections	Enhance advanced warning at intersection

	traffic control - other					Freeways and Expressways					ns through
STP 2015(617)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	317690	317690	HSIP (Section 148)	Rural Principal Arterial - Other Freeways and Expressways	86100	65	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 1502(302)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	108944	108944	HSIP (Section 148)	Urban Minor Collector	145371	65	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 1502(305)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	153024	153024	HSIP (Section 148)	Urban Principal Arterial - Other	44746	60	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2015(570)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	135460	280240	HSIP (Section 148)	Urban Principal Arterial - Other	43293	60	State Highway Agency	Intersections	Enhance advanced warning at intersections through

STP 1502(301)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	137088	137088	HSIP (Section 148)	Urban Minor Collector	138411	65	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2015(831)HE S & STP 2015(829)HE S	Roadside Barrier-metal	11 Miles	590124	590124	HSIP (Section 148)	Rural Minor Arterial	7627	55	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2015(822)HE S	Roadway Rumble strips - edge or shoulder	8 Miles	86610	86610	HSIP (Section 148)	Rural Principal Arterial - Other	6734	75	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(821)HE S	Roadway Rumble strips - edge or shoulder	7 Miles	114489	114489	HSIP (Section 148)	Rural Principal Arterial - Other	5360	75	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(836)HE S	Roadside Barrier-metal	8 Miles	444021	444021	HSIP (Section 148)	Rural Major Collector	730	70	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2015(824)HE S	Roadway Rumble strips - edge	6 Miles	67256	67256	HSIP (Section 148)	Rural Principal Arterial -	3345	75	State Highway Agency	Roadway Departure	Continue to install shoulder

	or shoulder					Other					and centerline rumble
STP 2015(834)HE S	Roadside Barrier-metal	5 Miles	62511	62511	HSIP (Section 148)	Rural Minor Collector	232	70	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2015(823)HE S	Roadway Rumble strips - center	18 Miles	83480	83480	HSIP (Section 148)	Rural Minor Arterial	1480	75	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 2015(833)HE S	Roadside Barrier-metal	10 Miles	275023	275023	HSIP (Section 148)	Rural Major Collector	237	70	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2015(832)HE S	Roadside Barrier-metal	23 Miles	413297	413297	HSIP (Section 148)	Rural Major Collector	964	70	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2015(825)HE S	Roadway Rumble strips - center	10 Miles	39316	39316	HSIP (Section 148)	Rural Major Collector	1867	70	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str

STP 2015(826)HE S	Roadway Rumble strips - center	11 Miles	50145	50145	HSIP (Section 148)	Rural Major Collector	2593	70	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 2015(827)HE S & STP 2015(828)HE S	Roadway Rumble strips - center	20 Miles	105800	105800	HSIP (Section 148)	Rural Major Collector	3131	55	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 1502(276)HE S	Roadway Rumble strips - center	4 Miles	35128	35128	HSIP (Section 148)	Rural Minor Arterial	13335	55	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 2015(571)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	28690	28690	HSIP (Section 148)	Rural Minor Arterial	5942	65	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 1502(144)HE S & STP 1502(145)HE S	Roadside Barrier-metal	24 Miles	1477885	1477885	HSIP (Section 148)	Urban Principal Arterial - Interstate	129793	70	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,

STP 2015(572)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	125512	125512	HSIP (Section 148)	Urban Minor Arterial	24713	60	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 1502(303)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	54418	54418	HSIP (Section 148)	Urban Principal Arterial - Other	52683	50	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 1502(304)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	62292	62292	HSIP (Section 148)	Urban Principal Arterial - Other	49138	50	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 1502(146)HE S	Roadside Barrier-metal	16 Miles	1151527	1151527	HSIP (Section 148)	Rural Major Collector	1095	60	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 1502(300)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	105098	105098	HSIP (Section 148)	Urban Principal Arterial - Other	33390	45	State Highway Agency	Intersections	Enhance advanced warning at intersections through

STP 2015(360)HE S	Roadway Rumble strips - edge or shoulder	7 Miles	86446	86446	HSIP (Section 148)	Rural Minor Collector	4918	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(359)HE S	Roadway Rumble strips - edge or shoulder	10 Miles	328217	328217	HSIP (Section 148)	Rural Principal Arterial - Interstate	11820 1	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(358)HE S	Roadway Rumble strips - edge or shoulder	3 Miles	45832	45832	HSIP (Section 148)	Rural Principal Arterial - Other	7034	60	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(357)HE S	Roadway Rumble strips - edge or shoulder	6 Miles	12521	12521	HSIP (Section 148)	Urban Principal Arterial - Other	30150	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(356)HE S	Roadway Rumble strips - edge or shoulder	16 Miles	84741	84741	HSIP (Section 148)	Rural Minor Arterial	30150	65	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(355)HE S	Roadway Rumble strips - center	4 Miles	21286	21286	HSIP (Section 148)	Rural Minor Arterial	10719	45	State Highway Agency	Lane Departure	Increase the installation of

											centerline rumble str
STP 2015(354)HE S	Roadway Rumble strips - edge or shoulder	22 Miles	97437	97437	HSIP (Section 148)	Rural Minor Arterial	10452	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(353)HE S	Roadside Barrier- metal	9 Miles	125451	125451	HSIP (Section 148)	Rural Minor Arterial	14496	60	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2015(363)HE S & STP 2015(364)HE S	Roadway Rumble strips - edge or shoulder	6 Miles	80722	80722	HSIP (Section 148)	Urban Minor Collector	15162	45	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2014(362)HE S	Roadway Rumble strips - edge or shoulder	10 Miles	67892	67892	HSIP (Section 148)	Rural Minor Arterial	12553	65	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(361)HE S	Roadway Rumble strips - edge or shoulder	6 Miles	33134	33134	HSIP (Section 148)	Rural Minor Arterial	13204	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
SFT 291-3-65	Roadside	4 Miles	1296470	1296470	HSIP	Rural	935	35	State	Roadway	Continue

	Barrier-metal				(Section 148)	Minor Arterial			Highway Agency	Departure	to remove trees, relocate utility poles,
SFT 193-2-43	Roadway Rumble strips - edge or shoulder	1 Miles	49802	49802	HSIP (Section 148)	Rural Major Collector	3774	50	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 1502(264)HR R	Shoulder treatments Widen shoulder - paved or other	1 Miles	480173	480173	HRRRP (SAFETE A-LU)	Rural Major Collector	972	55	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(265)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	18 Miles	1685720	1685720	HSIP (Section 148)	Rural Principal Arterial - Other	2283	70	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2015(365)HE S & STP 2015(366)HE S	Roadway Rumble strips - edge or shoulder	4 Miles	42573	42573	HSIP (Section 148)	Rural Principal Arterial - Other	19497	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble

STP 2015(855)HE S	Roadway Rumble strips - edge or shoulder	11 Miles	60029	60029	HSIP (Section 148)	Rural Principal Arterial - Other	2901	75	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(853)HE S & STP 2015(856)HE S	Roadway Rumble strips - edge or shoulder	17 Miles	125387	125387	HSIP (Section 148)	Urban Principal Arterial - Other	10157	75	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(854)HE S	Roadway Rumble strips - edge or shoulder	15 Miles	151147	151147	HSIP (Section 148)	Rural Principal Arterial - Other	8078	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(869)HE S	Roadway Rumble strips - edge or shoulder	7 Miles	28415	28415	HSIP (Section 148)	Rural Major Collector	839	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(862)HE S	Roadway Rumble strips - edge or shoulder	13 Miles	56277	56277	HSIP (Section 148)	Rural Minor Arterial	10713	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(865)HE S	Roadway Rumble strips - edge or shoulder	14 Miles	52865	52865	HSIP (Section 148)	Rural Minor Arterial	5599	70	State Highway Agency	Roadway Departure	Continue to install shoulder and

											centerline rumble
STP 2015(866)HE S	Roadway Rumble strips - edge or shoulder	11 Miles	71685	71685	HSIP (Section 148)	Rural Minor Arterial	7516	75	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(861)HE S	Roadway Rumble strips - center	18 Miles	109998	109998	HSIP (Section 148)	Rural Major Collector	8217	55	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 2015(871)HE S	Roadway Rumble strips - edge or shoulder	5 Miles	20214	20214	HSIP (Section 148)	Rural Major Collector	3417	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(872)HE S	Roadway Rumble strips - edge or shoulder	3 Miles	13525	13525	HSIP (Section 148)	Rural Major Collector	1999	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(870)HE S	Roadway Rumble strips - edge or shoulder	17 Miles	67428	67428	HSIP (Section 148)	Rural Major Collector	18414	65	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP	Roadway	8 Miles	40078	40078	HSIP	Rural	20207	70	State	Lane	Increase

2015(864)HE S	Rumble strips - center				(Section 148)	Minor Arterial			Highway Agency	Departure	the installation of centerline rumble str
STP 2015(670)HE S	Roadway Rumble strips - center	6 Miles	25631	25631	HSIP (Section 148)	Rural Minor Collector	170	60	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 2015(668)HE S	Roadway Rumble strips - center	5 Miles	13817	13817	HSIP (Section 148)	Rural Major Collector	6251	70	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 2015(669)HE S	Roadway Rumble strips - edge or shoulder	5 Miles	21867	21867	HSIP (Section 148)	Rural Major Collector	6251	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(664)HE S	Roadway Rumble strips - edge or shoulder	7 Miles	46850	46850	HSIP (Section 148)	Rural Principal Arterial - Other	7843	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(665)HE S	Roadway Rumble strips - center	7 Miles	18541	18541	HSIP (Section 148)	Rural Principal Arterial - Other	7843	55	State Highway Agency	Lane Departure	Increase the installation of centerline

											rumble str
STP 2015(663)HES	Roadway Rumble strips - edge or shoulder	10 Miles	47673	47673	HSIP (Section 148)	Rural Principal Arterial - Other	5650	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 152(535)HES	Roadway Rumble strips - edge or shoulder	4 Miles	35299	35299	HSIP (Section 148)	Rural Principal Arterial - Other	33686	60	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 1502(537)HES	Roadway Rumble strips - center	4 Miles	63216	63216	HSIP (Section 148)	Rural Minor Arterial	8793	55	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 1502(538)HES	Roadway Rumble strips - edge or shoulder	4 Miles	10314	10314	HSIP (Section 148)	Rural Minor Arterial	8793	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 1502(539)HES	Roadway Rumble strips - edge or shoulder	3 Miles	9578	9578	HSIP (Section 148)	Rural Major Collector	6894	45	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 1502(536)HES	Roadway Rumble	2 Miles	5069	5069	HSIP (Section	Urban Principal	31968	60	State Highway	Roadway Departure	Continue to install

S	strips - edge or shoulder				148)	Arterial - Other Freeways and Expressways			Agency		shoulder and centerline rumble
STP 2015(858)HE S	Roadway Rumble strips - edge or shoulder	2 Miles	14582	14582	HSIP (Section 148)	Rural Major Collector	3016	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(859)HE S	Roadway Rumble strips - edge or shoulder	3 Miles	20708	20708	HSIP (Section 148)	Rural Major Collector	4896	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(857)HE S	Roadway Rumble strips - edge or shoulder	9 Miles	56159	56159	HSIP (Section 148)	Rural Major Collector	3519	65	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(666)HR R	Roadway Rumble strips - edge or shoulder	7 Miles	35209	35209	HRRRP (SAFETE A-LU)	Rural Major Collector	9209	60	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(863)HR R	Roadway Rumble strips - edge or shoulder	6 Miles	25840	25840	HRRRP (SAFETE A-LU)	Rural Minor Collector	78045	65	State Highway Agency	Roadway Departure	Continue to install shoulder and

											centerline rumble
STP 2015(867)HR R	Roadway Rumble strips - edge or shoulder	17 Miles	58702	58702	HRRRP (SAFETE A-LU)	Rural Major Collector	4861	65	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(868)HR R	Roadway Rumble strips - edge or shoulder	10 Miles	50970	50970	HRRRP (SAFETE A-LU)	Rural Major Collector	7773	60	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(671)HR R	Roadway Rumble strips - center	7 Miles	30717	30717	HRRRP (SAFETE A-LU)	Rural Minor Collector	304	55	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 1502(519)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Miles	19910	19910	HSIP (Section 148)	Rural Minor Collector	871	60	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 1502(518)HE S	Intersection traffic control Intersection	1 Numbers	93060	93060	HSIP (Section 148)	Urban Principal Arterial - Other	13343	70	State Highway Agency	Intersections	Enhance advanced warning at intersectio

	traffic control - other										ns through
STP 1502(517)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	97501	97501	HSIP (Section 148)	Urban Principal Arterial - Interstate	115768	65	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 1502(354)HE S	Roadway Rumble strips - edge or shoulder	8 Miles	26163	26163	HSIP (Section 148)	Rural Principal Arterial - Other	3882	75	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(629)HE S	Roadside Barrier-metal	8 Miles	618946	618946	HSIP (Section 148)	Rural Major Collector	1254	60	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2015(626)HE S & STP 2015(627)HE S	Roadway Rumble strips - center	13 Miles	59027	59027	HSIP (Section 148)	Rural Major Collector	1411	70	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 1502(203)HE S	Roadside Barrier-metal	8 Miles	636444	636444	HSIP (Section 148)	Rural Major Collector	518	60	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,

STP 2015(625)HE S	Roadway Rumble strips - center	13 Miles	23360	23360	HSIP (Section 148)	Rural Major Collector	3992	70	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 1502(172)HE S	Roadside Barrier-metal	8 Miles	584096	584096	HSIP (Section 148)	Rural Minor Arterial	38847	55	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 1502(173)HE S	Roadside Barrier-metal	11 Miles	389607	389607	HSIP (Section 148)	Rural Major Collector	3446	60	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 1502(170)HE S	Roadside Barrier-metal	8 Miles	958552	958552	HSIP (Section 148)	Urban Principal Arterial - Other	39195	65	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 1502(169)HE S	Roadside Barrier-metal	7 Miles	670053	670053	HSIP (Section 148)	Urban Principal Arterial - Other	23239	65	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 1502(136)HE S	Roadway Rumble strips - edge or shoulder	8 Miles	74992	74992	HSIP (Section 148)	Rural Major Collector	3288	75	State Highway Agency	Roadway Departure	Continue to install shoulder and

											centerline rumble
STP 1502(171)HE S	Roadside Barrier-metal	8 Miles	268878	268878	HSIP (Section 148)	Rural Principal Arterial - Other	2753	75	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2016(011)HE S	Roadway Rumble strips - edge or shoulder	3 Miles	22468	22468	HSIP (Section 148)	Rural Major Collector	1500	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2016(009)HE S	Roadway Rumble strips - unspecified or other	15 Miles	94066	94066	HSIP (Section 148)	Rural Minor Arterial	7973	75	State Highway Agency	Lane Departure	Continue to install shoulder and centerline rumble
STP 2016(008)HE S	Roadway Rumble strips - unspecified or other	14 Miles	98211	98211	HSIP (Section 148)	Rural Minor Arterial	2012	75	State Highway Agency	Lane Departure	Continue to install shoulder and centerline rumble
STP 2015(789)HE S	Shoulder treatments Widen shoulder - paved or other	2 Miles	926786	926786	HSIP (Section 148)	Rural Major Collector	166	70	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP	Intersection	1	377510	377510	HSIP	Rural	5877	70	State	Intersectio	Enhance

2015(796)HE S	traffic control Intersection traffic control - other	Numbers			(Section 148)	Minor Arterial			Highway Agency	ns	advanced warning at intersections through
STP 2015(585)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	173645	173645	HSIP (Section 148)	Rural Principal Arterial - Other	5068	55	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2015(809)HE S	Roadway Rumble strips - center	13 Miles	34263	34263	HSIP (Section 148)	Rural Minor Arterial	2894	75	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 2015(800)HE S	Roadway Rumble strips - center	15 Miles	58746	58746	HSIP (Section 148)	Rural Minor Arterial	1253	75	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 2015(812)HE S	Roadway Rumble strips - center	13 Miles	61014	61014	HSIP (Section 148)	Rural Major Collector	1226	75	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 2015(815)HE S	Roadway Rumble strips -	18 Miles	78488	78488	HSIP (Section 148)	Rural Major Collector	332	75	State Highway Agency	Lane Departure	Increase the installation

	center											of centerline rumble str
STP 2015(807)HE S	Roadway Rumble strips - center	23 Miles	55885	55885	HSIP (Section 148)	Rural Major Collector	2128	75	State Highway Agency	Lane Departure		Increase the installation of centerline rumble str
STP 2015(818)HE S	Roadway Rumble strips - center	13 Miles	60746	60746	HSIP (Section 148)	Rural Major Collector	777	75	State Highway Agency	Lane Departure		Increase the installation of centerline rumble str
STP 2015(806)HE S	Roadway Rumble strips - center	14 Miles	76052	76052	HSIP (Section 148)	Rural Minor Arterial	6394	75	State Highway Agency	Lane Departure		Increase the installation of centerline rumble str
STP 2015(811)HE S	Roadway Rumble strips - center	11 Miles	58807	58807	HSIP (Section 148)	Rural Minor Arterial	1415	75	State Highway Agency	Lane Departure		Increase the installation of centerline rumble str
STP 2015(810)HE S	Roadway Rumble strips - center	18 Miles	82286	82286	HSIP (Section 148)	Rural Minor Arterial	2823	75	State Highway Agency	Lane Departure		Increase the installation of centerline rumble str

STP 2015(797)HE S	Roadway Rumble strips - center	7 Miles	28119	28119	HSIP (Section 148)	Rural Minor Arterial	2756	75	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 2015(798)HE S	Roadway Rumble strips - center	10 Miles	41198	41198	HSIP (Section 148)	Rural Minor Arterial	10670	55	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 2015(817)HE S	Roadway Rumble strips - center	25 Miles	138627	138627	HSIP (Section 148)	Rural Major Collector	4041	75	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 2015(820)HE S	Roadway Rumble strips - center	9 Miles	41811	41811	HSIP (Section 148)	Rural Minor Collector	5013	60	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 2015(803)HE S	Roadway Rumble strips - center	19 Miles	84647	84647	HSIP (Section 148)	Rural Principal Arterial - Other	4741	75	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 1502(066)HE S	Roadway Rumble strips - unspecified	4 Miles	246004	246004	HSIP (Section 148)	Urban Major Collector	34121	65	State Highway Agency	Lane Departure	Continue to install shoulder and

	or other										centerline rumble
STP 1602(079)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	215887	215887	HSIP (Section 148)	Urban Principal Arterial - Other	7336	55	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 1502(386)HE S	Intersection geometry Auxiliary lanes - add left-turn lane	1 Numbers	790877	790877	HSIP (Section 148)	Rural Principal Arterial - Other	9464	65	State Highway Agency	Intersections	Add more turn bays and acceleration lanes on high-
STP 1502(390)HE S	Roadside Barrier-metal	5 Miles	3547716	3547716	HSIP (Section 148)	Rural Major Collector	714	55	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 1502(308)HE S	Intersection geometry Auxiliary lanes - add left-turn lane	3 Miles	832763	832763	HSIP (Section 148)	Rural Minor Arterial	7892	65	State Highway Agency	Intersections	Add more turn bays and acceleration lanes on high-
STP 2016(392)HE S	Roadway Roadway widening - add lane(s) along segment	1 Miles	349925	349925	HSIP (Section 148)	Rural Minor Arterial	6397	65	State Highway Agency	Intersections	Add more turn bays and acceleration lanes on high-

STP 1502(387)HE S	Intersection geometry Auxiliary lanes - add left-turn lane	1 Numbers	826750	826750	HSIP (Section 148)	Rural Major Collector	9299	60	State Highway Agency	Intersections	Add more turn bays and acceleration lanes on high-
STP 1502(383)HE S	Intersection geometry Auxiliary lanes - add left-turn lane	4 Miles	4110149	4110149	HSIP (Section 148)	Rural Principal Arterial - Other	22498	45	State Highway Agency	Intersections	Add more turn bays and acceleration lanes on high-
STP 1502(632)HE S	Lighting Continuous roadway lighting	4 Miles	2247731	2247731	HSIP (Section 148)	Urban Principal Arterial - Interstate	204258	70	State Highway Agency	Intersections	Eliminate limited sight distance on all roads. Th
STP 2015(604)HE S	Roadway Pavement surface - high friction surface	3 Miles	122223	122223	HSIP (Section 148)	Rural Local Road or Street	400	60	County Highway Agency	Roadway Departure	Provide progressive levels of treatment for curves
STP 2015(605)HE S	Roadway Pavement surface - high friction surface	1 Miles	189202	189202	HSIP (Section 148)	Rural Local Road or Street	400	60	County Highway Agency	Roadway Departure	Provide progressive levels of treatment for curves
STP 2015(879)HE S	Intersection geometry Auxiliary lanes - add left-turn lane	1 Numbers	1300087	1300087	HSIP (Section 148)	Rural Principal Arterial - Other	11628	75	State Highway Agency	Intersections	Add more turn bays and acceleration lanes on high-

STP 2016(115)HE S	Intersection traffic control Intersection traffic control - other	2 Miles	783875	783875	HSIP (Section 148)	Urban Principal Arterial - Other	4191	75	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 1502(494)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	395282	395282	HSIP (Section 148)	Urban Minor Arterial	1000	45	City of Municipal Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 1502(495)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	150048	150048	HSIP (Section 148)	Urban Minor Arterial	1000	45	City of Municipal Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 1502(092)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	235159	235159	HSIP (Section 148)	Urban Principal Arterial - Other	38098	45	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 1502(093)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	184815	184815	HSIP (Section 148)	Urban Principal Arterial - Other	38098	45	State Highway Agency	Intersections	Enhance advanced warning at intersections through

	other										
STP 2015(840)HE S	Roadside Barrier-metal	8 Miles	241838	380037	HSIP (Section 148)	Urban Principal Arterial - Other Freeways and Expressways	61988	60	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2015(841)HE S	Roadside Barrier-metal	16 Miles	556932	556932	HSIP (Section 148)	Urban Principal Arterial - Other Freeways and Expressways	61205	60	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2015(784)HE S	Roadway Pavement surface - high friction surface	0.100 Miles	128676	128676	HSIP (Section 148)	Urban Minor Collector	1000	45	City of Municipal Highway Agency	Roadway Departure	Provide progressive levels of treatment for curves
STP 1502(496)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	257625	257625	HSIP (Section 148)	Rural Minor Arterial	1000	45	City of Municipal Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 1502(084)HE S	Intersection traffic control Intersection	1 Numbers	159709	159709	HSIP (Section 148)	Urban Minor Arterial	10649	55	State Highway Agency	Intersections	Enhance advanced warning at intersection

	traffic control - other										ns through
STP 1502(086)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	145707	145707	HSIP (Section 148)	Urban Minor Arterial	10649	55	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2015(847)HE S	Intersection geometry Auxiliary lanes - add left-turn lane	0.227 Miles	315300	1615401	HSIP (Section 148)	Urban Principal Arterial - Other	8514	45	State Highway Agency	Intersections	Add more turn bays and acceleration lanes on high-
STP 1502(491)HE S	Roadside Barrier-metal	2 Miles	2446061	2446061	HSIP (Section 148)	Rural Major Collector	1027	55	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2015(846)HE S	Intersection geometry Auxiliary lanes - add left-turn lane	1 Numbers	214604	214604	HSIP (Section 148)	Rural Major Collector	1027	55	State Highway Agency	Intersections	Add more turn bays and acceleration lanes on high-
STP 2015(848)HE S	Intersection geometry Auxiliary lanes - add left-turn lane	1 Numbers	255049	255049	HSIP (Section 148)	Rural Major Collector	1027	55	State Highway Agency	Intersections	Add more turn bays and acceleration lanes on high-

STP 1502(326)HE S	Intersection geometry Auxiliary lanes - add left-turn lane	1 Numbers	293513	801819	HSIP (Section 148)	Rural Minor Arterial	9899	60	State Highway Agency	Intersections	Add more turn bays and acceleration lanes on high-
STP 1502(327)HE S	Intersection geometry Auxiliary lanes - add left-turn lane	1 Numbers	299049	299049	HSIP (Section 148)	Rural Principal Arterial - Other	11132	60	State Highway Agency	Intersections	Add more turn bays and acceleration lanes on high-
STP 1502(546)HE S	Shoulder treatments Widen shoulder - paved or other	4 Miles	1468973	1468973	HSIP (Section 148)	Rural Major Collector	2773	55	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 2015(850)HE S	Roadside Barrier - other	1 Miles	675364	675364	HSIP (Section 148)	Urban Principal Arterial - Interstate	145896	60	State Highway Agency	Lane Departure	Install more concrete and cable median barriers.
STP 2015(468)HE S	Roadway Pavement surface - high friction surface	0.300 Miles	201117	201117	HSIP (Section 148)	Rural Principal Arterial - Other	27151	75	State Highway Agency	Roadway Departure	Provide progressive levels of treatment for curves
STP 2015(703)HE S	Intersection traffic control Intersection traffic	1 Numbers	259722	259722	HSIP (Section 148)	Urban Principal Arterial - Interstate	34265	50	State Highway Agency	Intersections	Enhance advanced warning at intersections through

	control - other										
STP 1502(247)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	277633	277633	HSIP (Section 148)	Urban Principal Arterial - Other	115325	65	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 1502(246)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	136919	136919	HSIP (Section 148)	Urban Principal Arterial - Other	62063	65	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 1502(248)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	194665	194665	HSIP (Section 148)	Urban Principal Arterial - Other	3607	50	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2016(045)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	204282	204282	HSIP (Section 148)	Urban Principal Arterial - Other	28156	35	State Highway Agency	Intersections	Enhance advanced warning at intersections through

STP 2016(046)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	181719	181719	HSIP (Section 148)	Urban Principal Arterial - Other	28156	35	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2016(047)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	158681	158681	HSIP (Section 148)	Urban Principal Arterial - Other	28156	35	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2016(048)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	154799	154799	HSIP (Section 148)	Urban Principal Arterial - Other	28156	35	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2016(116)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	111111	111111	HSIP (Section 148)	Urban Principal Arterial - Other	30625	65	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2015(210)HE SG	Roadway Rumble strips - edge	14 Miles	92054	92054	HSIP (Section 148)	Rural Principal Arterial -	3279	70	State Highway Agency	Roadway Departure	Continue to install shoulder

	or shoulder					Other					and centerline rumble
STP 2015(215)HE SG & STP 2015(216)HE SG	Roadway Rumble strips - edge or shoulder	33 Miles	92400	92400	HSIP (Section 148)	Rural Major Collector	28856	75	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 1502(158)HE S	Access management Raised island - install new	1 Miles	137712	137712	HSIP (Section 148)	Urban Principal Arterial - Other	20673	50	State Highway Agency	Lane Departure	Install more concrete and cable median barriers.
STP 2015(211)HE SG	Roadway Rumble strips - edge or shoulder	13 Miles	128996	128996	HSIP (Section 148)	Rural Principal Arterial - Other	8947	75	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(212)HE SG & STP 2015(213)HE SG	Roadway Rumble strips - edge or shoulder	20 Miles	114070	114070	HSIP (Section 148)	Rural Principal Arterial - Other	7412	75	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(228)HE SG	Roadway Rumble strips - edge or shoulder	14 Miles	98745	98745	HSIP (Section 148)	Rural Minor Arterial	5121	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble

STP 2015(227)HE SG	Roadway Rumble strips - edge or shoulder	19 Miles	136223	136223	HSIP (Section 148)	Rural Minor Arterial	2255	75	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 1502(185)HE S	Roadside Barrier-metal	2 Miles	406251	406251	HSIP (Section 148)	Rural Major Collector	1616	55	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 1502(186)HE S	Roadside Barrier-metal	3 Miles	231816	231816	HSIP (Section 148)	Rural Minor Collector	2142	55	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2015(619)HE S	Shoulder treatments Widen shoulder - paved or other	1 Miles	548619	548619	HSIP (Section 148)	Rural Minor Collector	893	55	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 2016(058)HE S	Roadside Barrier-metal	16 Miles	2332200	4402761	HSIP (Section 148)	Urban Minor Arterial	13830	60	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2016(122)HE S	Roadside Barrier-metal	1 Miles	135119	135119	HSIP (Section 148)	Rural Minor Collector	452	50	State Highway Agency	Roadway Departure	Continue to remove trees, relocate

											utility poles,
STP 2016(121)HE S	Roadside Barrier-metal	8 Miles	1184561	1184561	HSIP (Section 148)	Rural Principal Arterial - Other	3741	75	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2016(120)HE S	Roadside Barrier-metal	7 Miles	528575	528575	HSIP (Section 148)	Rural Minor Arterial	1663	70	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2016(419)HE S	Roadside Barrier-metal	10 Miles	1260125	1260125	HSIP (Section 148)	Urban Minor Arterial	5639	75	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2016(169)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	114652	114652	HSIP (Section 148)	Rural Major Collector	2258	75	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2016(164)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	194827	194827	HSIP (Section 148)	Rural Minor Arterial	4276	70	State Highway Agency	Intersections	Enhance advanced warning at intersections through

STP 2016(168)HE S	Intersection traffic control Intersection traffic control - other	1 Numbe rs	54837	54837	HSIP (Section 148)	Urban Minor Arterial	7400	75	State Highway Agency	Intersectio ns	Enhance advanced warning at intersectio ns through
STP 1502(407)HE S	Intersection geometry Auxiliary lanes - add left-turn lane	1 Numbe rs	315583	315583	HSIP (Section 148)	Urban Minor Arterial	4314	60	State Highway Agency	Intersectio ns	Add more turn bays and acceleratio n lanes on high-
STP 2016(171)HE S	Intersection traffic control Intersection traffic control - other	1 Numbe rs	60889	60889	HSIP (Section 148)	Rural Major Collector	3755	75	State Highway Agency	Intersectio ns	Enhance advanced warning at intersectio ns through
STP 2016(165)HE S	Intersection traffic control Intersection traffic control - other	1 Numbe rs	105373	105373	HSIP (Section 148)	Urban Principal Arterial - Other	8662	75	State Highway Agency	Intersectio ns	Enhance advanced warning at intersectio ns through
STP 2016(163)HE S	Intersection traffic control Intersection traffic control - other	1 Numbe rs	53161	53161	HSIP (Section 148)	Rural Major Collector	4933	70	State Highway Agency	Intersectio ns	Enhance advanced warning at intersectio ns through

STP 1502(558)HE S	Shoulder treatments Widen shoulder - paved or other	6 Miles	2460214	2460214	HSIP (Section 148)	Rural Major Collector	4531	55	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 2016(102)HE S	Shoulder treatments Widen shoulder - paved or other	4 Miles	542959	542959	HSIP (Section 148)	Rural Major Collector	3723	55	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(557)HE S	Shoulder treatments Widen shoulder - paved or other	9 Miles	2623426	2623426	HSIP (Section 148)	Rural Major Collector	1378	55	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 2015(909)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	27610	27610	HSIP (Section 148)	Rural Minor Arterial	921	75	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2015(913)HE S	Intersection traffic control Intersection flashers - add advance	1 Numbers	25614	25614	HSIP (Section 148)	Rural Major Collector	4513	55	State Highway Agency	Intersections	Enhance advanced warning at intersections through

	intersection warning sign-mounted										
STP 2015(910)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	22121	22121	HSIP (Section 148)	Rural Principal Arterial - Other	8129	55	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2015(915)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	26160	26160	HSIP (Section 148)	Rural Major Collector	1117	55	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2015(923)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	22277	22277	HSIP (Section 148)	Urban Minor Arterial	7874	30	State Highway Agency	Intersections	Enhance advanced warning at intersections through

STP 2015(929)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	21583	21583	HSIP (Section 148)	Urban Minor Arterial	5164	60	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2015(908)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	21068	21068	HSIP (Section 148)	Urban Principal Arterial - Other	13182	40	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2015(904)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	49953	49953	HSIP (Section 148)	Urban Principal Arterial - Other	14098	55	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2015(905)HE S	Intersection traffic control Intersection	1 Numbers	20559	20559	HSIP (Section 148)	Urban Principal Arterial - Other	12818	55	State Highway Agency	Intersections	Enhance advanced warning at intersections

	flashers - add advance intersection warning sign-mounted										ns through
STP 2015(911)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	20477	20477	HSIP (Section 148)	Rural Major Collector	2462	55	State Highway Agency	Intersectio ns	Enhance advanced warning at intersections through
STP 2015(912)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	23661	23661	HSIP (Section 148)	Rural Major Collector	12847	55	State Highway Agency	Intersectio ns	Enhance advanced warning at intersections through
STP 2015(921)HE S	Lighting Continuous roadway lighting	1 Numbers	69050	69050	HSIP (Section 148)	Rural Principal Arterial - Other	11608	60	State Highway Agency	Intersectio ns	Eliminate limited sight distance on all roads. Th
STP 2015(922)HE	Intersection traffic	1 Numbe	20514	20514	HSIP (Section	Rural Principal	7914	60	State Highway	Intersectio ns	Enhance advanced

S	control Intersection flashers - add advance intersection warning sign-mounted	rs			148)	Arterial - Other			Agency		warning at intersections through
STP 2015(916)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	20506	20506	HSIP (Section 148)	Rural Minor Arterial	5363	55	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2015(917)HE S	Lighting Continuous roadway lighting	1 Miles	74141	74141	HSIP (Section 148)	Rural Major Collector	7229	55	State Highway Agency	Intersections	Eliminate limited sight distance on all roads. Th
STP 2015(918)HE S	Lighting Continuous roadway lighting	1 Miles	66499	66499	HSIP (Section 148)	Urban Minor Collector	7229	55	State Highway Agency	Intersections	Eliminate limited sight distance on all roads. Th
STP 2015(924)HE S	Intersection traffic control Intersection	1 Numbers	18861	18861	HSIP (Section 148)	Rural Principal Arterial - Other	23710	55	State Highway Agency	Intersections	Enhance advanced warning at intersectio

	flashers - add advance intersection warning sign-mounted										ns through
STP 2015(925)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	20250	20250	HSIP (Section 148)	Rural Major Collector	17871	45	State Highway Agency	Intersectio ns	Enhance advanced warning at intersections through
STP 2015(926)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	102112	102112	HSIP (Section 148)	Urban Principal Arterial - Other	11392	55	State Highway Agency	Intersectio ns	Enhance advanced warning at intersections through
STP 2015(928)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	21836	21836	HSIP (Section 148)	Urban Principal Arterial - Other	23908	50	State Highway Agency	Intersectio ns	Enhance advanced warning at intersections through

STP 2015(906)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	19657	19657	HSIP (Section 148)	Urban Principal Arterial - Other Freeways and Expressways	62188	65	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2015(907)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	20969	20969	HSIP (Section 148)	Urban Principal Arterial - Other Freeways and Expressways	62188	65	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2015(920)HE S	Lighting Continuous roadway lighting	1 Numbers	84619	84619	HSIP (Section 148)	Rural Minor Collector	690	60	State Highway Agency	Intersections	Eliminate limited sight distance on all roads. Th
STP 2015(914)HE S	Intersection traffic control Intersection flashers - add advance intersection warning	1 Numbers	23115	23115	HSIP (Section 148)	Rural Minor Arterial	2807	65	State Highway Agency	Intersections	Enhance advanced warning at intersections through

	sign-mounted										
STP 2015(927)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	21748	21748	HSIP (Section 148)	Rural Major Collector	733	55	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2015(901)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	22089	22089	HSIP (Section 148)	Rural Principal Arterial - Other	20754	40	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2015(902)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	23835	23835	HSIP (Section 148)	Rural Principal Arterial - Other	21474	45	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 1502(463)HE	Shoulder treatments	1 Miles	1161596	1161596	HSIP (Section	Rural Principal	22418	65	State Highway	Roadway Departure	Increase the use of

S	Widen shoulder - paved or other				148)	Arterial - Other			Agency		paved shoulders on FM roads to
STP 2015(903)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	23984	23984	HSIP (Section 148)	Rural Principal Arterial - Other	22398	55	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2015(919)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Numbers	26300	26300	HSIP (Section 148)	Rural Minor Arterial	2081	55	State Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 2015(733)HE S	Shoulder treatments Widen shoulder - paved or other	6 Miles	2293599	2293599	HSIP (Section 148)	Rural Principal Arterial - Interstate	31183	75	State Highway Agency	Roadway Departure	Install more pavement width to allow edge lines.
STP 2015(734)HE S	Shoulder treatments Widen shoulder -	2 Miles	1352503	1352503	HSIP (Section 148)	Rural Principal Arterial - Interstate	22697	75	State Highway Agency	Roadway Departure	Install more pavement width to

	paved or other										allow edge lines.
STP 2015(729)HE S	Roadway Rumble strips - edge or shoulder	13 Miles	199607	199607	HSIP (Section 148)	Rural Major Collector	10250	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(934)HE S	Roadside Barrier-metal	3 Miles	530989	530989	HSIP (Section 148)	Rural Minor Arterial	898	55	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2015(933)HE S	Shoulder treatments Widen shoulder - paved or other	6 Miles	2553976	2553976	HSIP (Section 148)	Rural Minor Arterial	529	55	State Highway Agency	Roadway Departure	Install more pavement width to allow edge lines.
STP 2015(935)HE S	Roadside Barrier-metal	6 Miles	1760096	1760096	HSIP (Section 148)	Rural Principal Arterial - Other	11417	65	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
STP 2015(580)HE S	Intersection traffic control Intersection traffic control - other	1 Numbers	2187618	2187618	HSIP (Section 148)	Urban Principal Arterial - Other	28140	50	State Highway Agency	Intersections	Enhance advanced warning at intersections through

STP 2015(937)HE S	Access management Raised island - install new	3 Miles	485383	485383	HSIP (Section 148)	Urban Principal Arterial - Other	41661	45	State Highway Agency	Lane Departure	Install more concrete and cable median barriers.
STP 2015(732)HE S	Roadway Rumble strips - edge or shoulder	5 Miles	88054	88054	HSIP (Section 148)	Rural Major Collector	13773	45	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(723)HE S	Roadway Rumble strips - edge or shoulder	1 Miles	87588	87588	HSIP (Section 148)	Urban Principal Arterial - Interstate	125546	65	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(724)HE S	Roadway Rumble strips - edge or shoulder	1 Miles	90413	90413	HSIP (Section 148)	Urban Principal Arterial - Interstate	122589	65	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 1502(269)HE S	Roadway Pavement surface - high friction surface	1 Numbers	155716	155716	HSIP (Section 148)	Rural Major Collector	7916	55	State Highway Agency	Intersections	Provide high friction surface treatments at inters
STP 1502(271)HE S	Roadway Pavement surface - high friction	1 Numbers	286140	286140	HSIP (Section 148)	Rural Minor Arterial	5591	60	State Highway Agency	Intersections	Provide high friction surface

	surface										treatments at inters
STP 1502(272)HE S	Roadway Pavement surface - high friction surface	1 Numbers	299822	299822	HSIP (Section 148)	Rural Minor Arterial	18542	65	State Highway Agency	Intersections	Provide high friction surface treatments at inters
STP 1502(268)HE S	Roadway Pavement surface - high friction surface	1 Numbers	211368	211368	HSIP (Section 148)	Rural Minor Arterial	9403	70	State Highway Agency	Intersections	Provide high friction surface treatments at inters
STP 1502(266)HE S	Roadway Pavement surface - high friction surface	1 Numbers	310138	310138	HSIP (Section 148)	Rural Minor Arterial	9430	70	State Highway Agency	Intersections	Provide high friction surface treatments at inters
STP 2015(725)HE S	Roadway Rumble strips - center	13 Miles	200475	200475	HSIP (Section 148)	Rural Minor Arterial	16305	70	State Highway Agency	Lane Departure	Increase the installation of centerline rumble str
STP 2015(731)HE S	Roadway Rumble strips - edge or shoulder	7 Miles	114209	114209	HSIP (Section 148)	Rural Minor Arterial	16680	55	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP	Intersection	1	31580	31580	HSIP	Urban	3202	75	State	Intersectio	Enhance

2015(730)HE S	traffic control Intersection flashers - add advance intersection warning sign-mounted	Numbers			(Section 148)	Minor Arterial			Highway Agency	ns	advanced warning at intersections through
STP 2015(727)HE S	Roadway Rumble strips - edge or shoulder	16 Miles	191743	191743	HSIP (Section 148)	Rural Major Collector	8661	65	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 2015(728)HE S	Roadway Rumble strips - unspecified or other	4 Miles	104737	104737	HSIP (Section 148)	Urban Major Collector	34121	65	State Highway Agency	Lane Departure	Continue to install shoulder and centerline rumble
STP 2015(726)HE S	Roadway Rumble strips - edge or shoulder	8 Miles	105256	105256	HSIP (Section 148)	Rural Minor Arterial	5453	70	State Highway Agency	Roadway Departure	Continue to install shoulder and centerline rumble
STP 1502(270)HE S	Intersection geometry Auxiliary lanes - add left-turn lane	1 Numbers	443845	443845	HSIP (Section 148)	Rural Major Collector	3677	60	State Highway Agency	Intersections	Add more turn bays and acceleration lanes on high-

STP 1502(284)HE S	Shoulder treatments Widen shoulder - paved or other	1 Miles	607132	607132	HSIP (Section 148)	Urban Minor Collector	1787	55	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 1502(285)HE S	Shoulder treatments Widen shoulder - paved or other	3 Miles	1577519	1577519	HSIP (Section 148)	Rural Major Collector	910	60	State Highway Agency	Roadway Departure	Increase the use of paved shoulders on FM roads to
STP 2015(782)HE S	Intersection traffic control Intersection flashers - add advance intersection warning sign-mounted	1 Miles	237418	237418	HSIP (Section 148)	Urban Minor Arterial	7630	40	City of Municipal Highway Agency	Intersections	Enhance advanced warning at intersections through
STP 1502(414)HE S	Roadside Barrier-metal	8 Miles	1328780	1328780	HSIP (Section 148)	Rural Major Collector	2144	65	State Highway Agency	Roadway Departure	Continue to remove trees, relocate utility poles,
IG 2002(961)SFT	Miscellaneous		6000000	6000000	HSIP (Section 148)					Data	Crash Records Information System (CRIS).

Progress in Achieving Safety Performance Targets

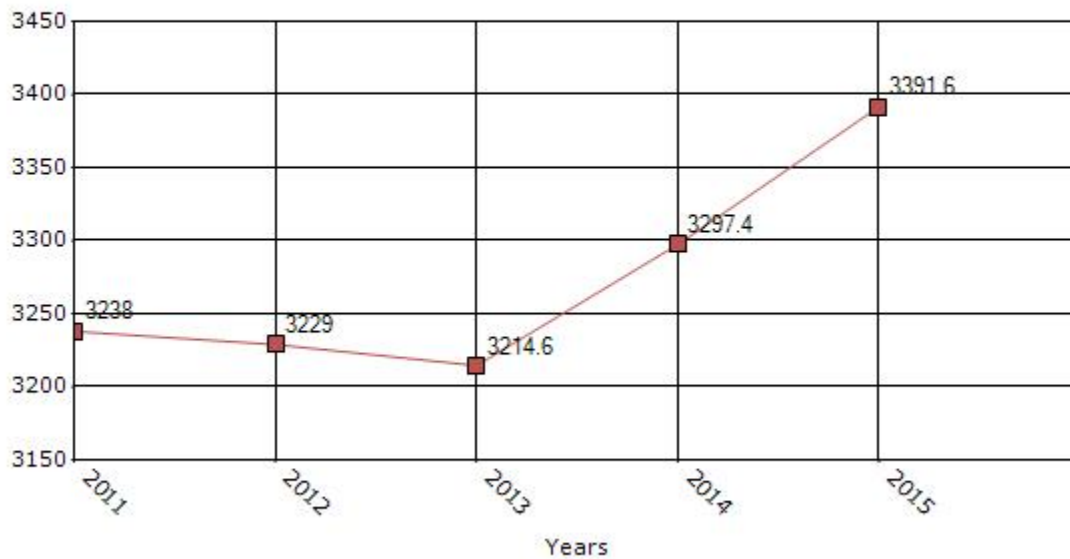
Overview of General Safety Trends

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

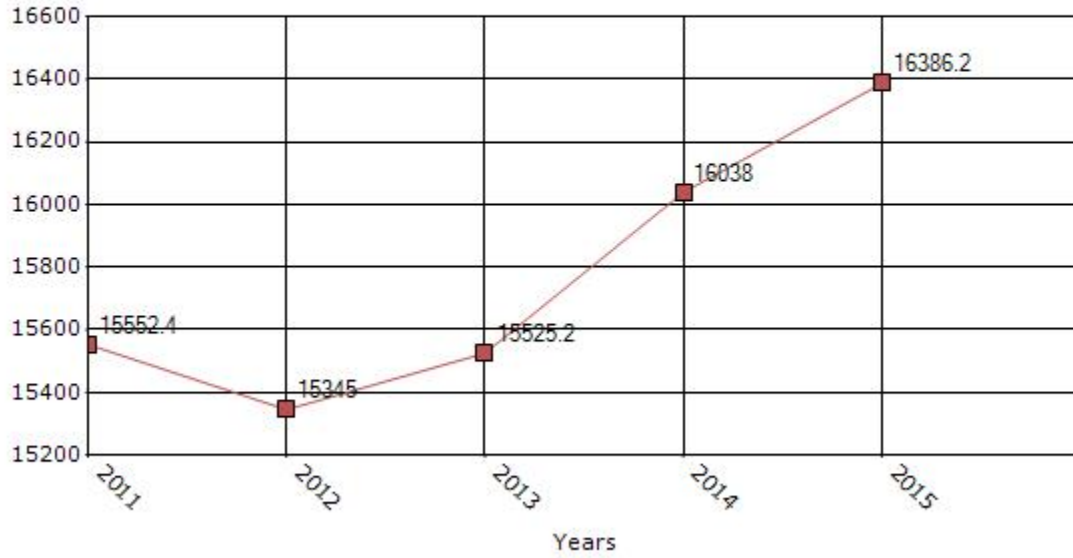
Performance Measures*	2011 (5-yr avg)	2012 (5-yr avg)	2013 (5-yr avg)	2014 (5-yr avg)	2015 (5-yr avg)
Number of fatalities	3238	3229	3214.6	3297.4	3391.6
Number of serious injuries	15552.4	15345	15525.2	16038	16386.2
Fatality rate (per HMVMT)	1.37	1.37	1.36	1.38	1.4
Serious injury rate (per HMVMT)	6.59	6.52	6.54	6.7	6.77

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

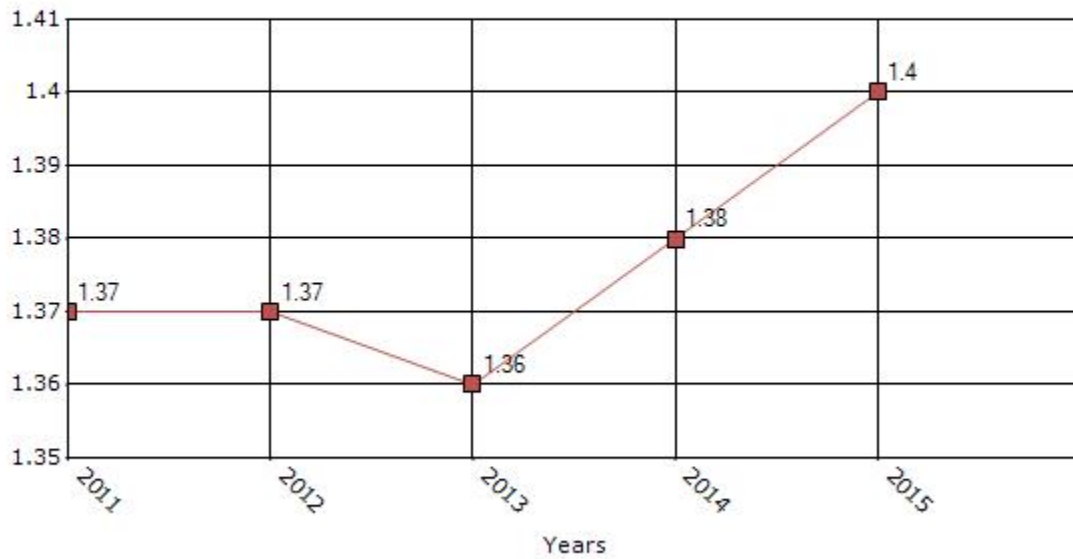
Number of Fatalities for the Last Five Years
5-yr Average Measure Data



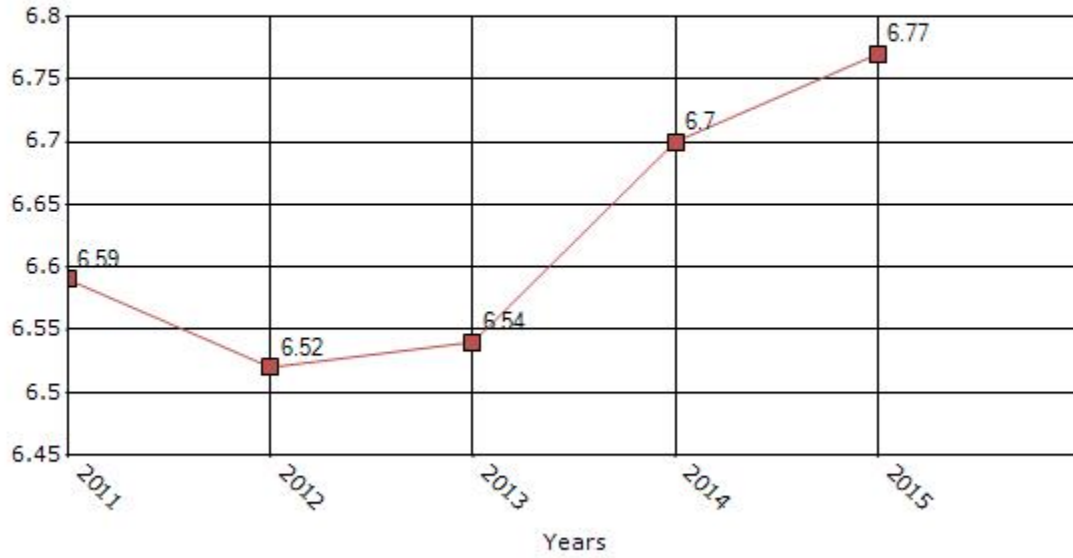
Number of Serious Injuries for the Last Five Years 5-yr Average Measure Data



Rate of Fatalities for the Last Five Years 5-yr Average Measure Data



Rate of Serious Injuries for the Last Five Years 5-yr Average Measure Data



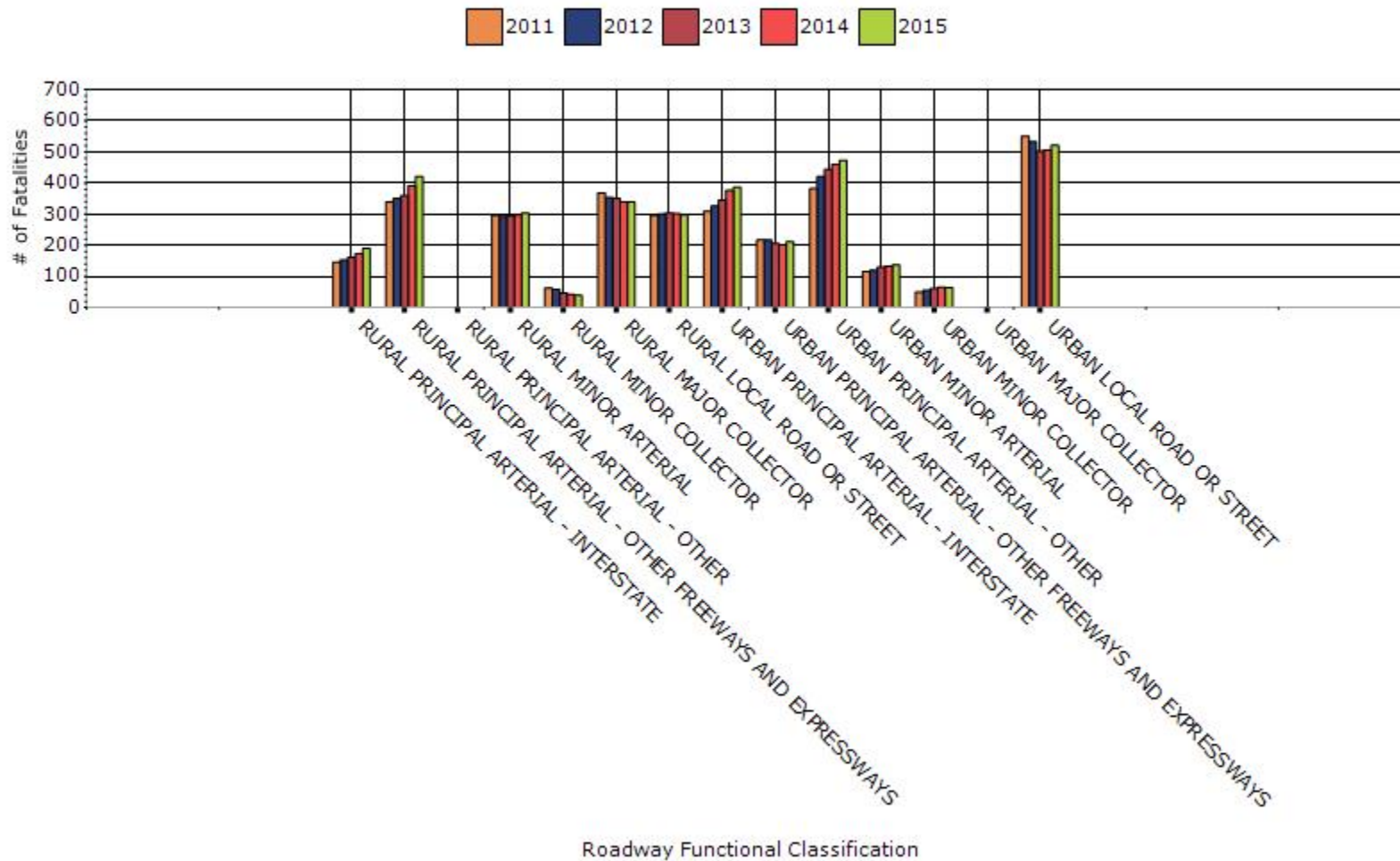
25. To the maximum extent possible, present performance measure data by functional classification and ownership.

Year - 2015

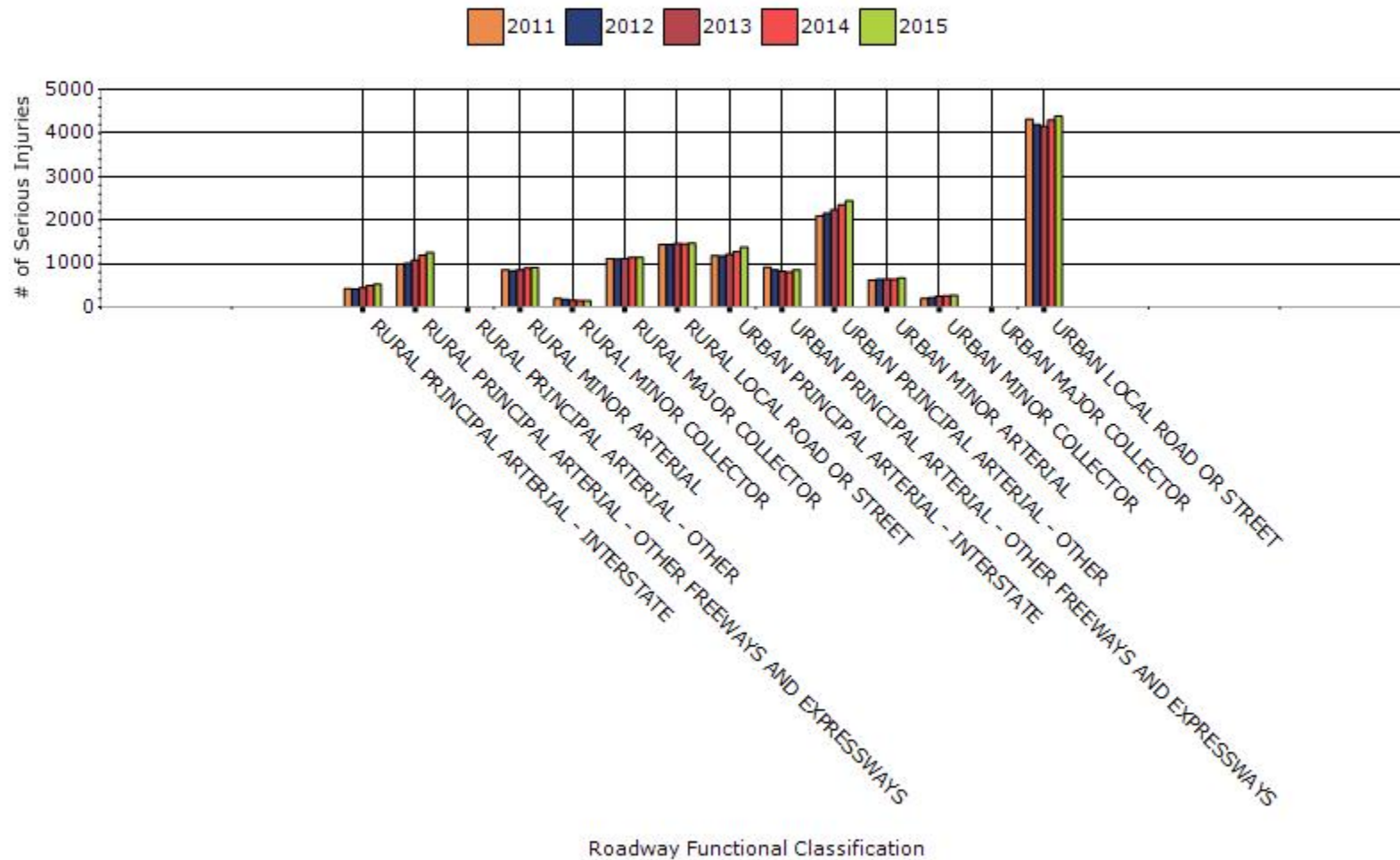
Function Classification	Number of fatalities (5-yr avg)	Number of serious injuries (5-yr avg)	Fatality rate (per HMVMT) (5-yr avg)	Serious injury rate (per HMVMT) (5-yr avg)
RURAL PRINCIPAL ARTERIAL - INTERSTATE	189.8	527	1.18	3.29
RURAL PRINCIPAL ARTERIAL - OTHER FREEWAYS AND EXPRESSWAYS	420.6	1255	1.97	5.88
RURAL MINOR ARTERIAL	303.4	907.8	2.51	7.52
RURAL MINOR COLLECTOR	39	144	1.76	6.42
RURAL MAJOR COLLECTOR	339	1147.4	2.52	8.55
RURAL LOCAL ROAD OR STREET	297.4	1465.6	5.96	29.48
URBAN PRINCIPAL ARTERIAL - INTERSTATE	386	1380.2	0.89	3.17
URBAN PRINCIPAL ARTERIAL - OTHER FREEWAYS AND EXPRESSWAYS	211	857.6	0.71	2.89
URBAN PRINCIPAL ARTERIAL - OTHER	472.8	2441.6	1.26	6.51
URBAN MINOR ARTERIAL	137	671.8	0.47	2.33
URBAN MINOR COLLECTOR	64	270.8	0.3	1.25

URBAN LOCAL ROAD OR STREET	521.4	4387.2	5.58	47.01
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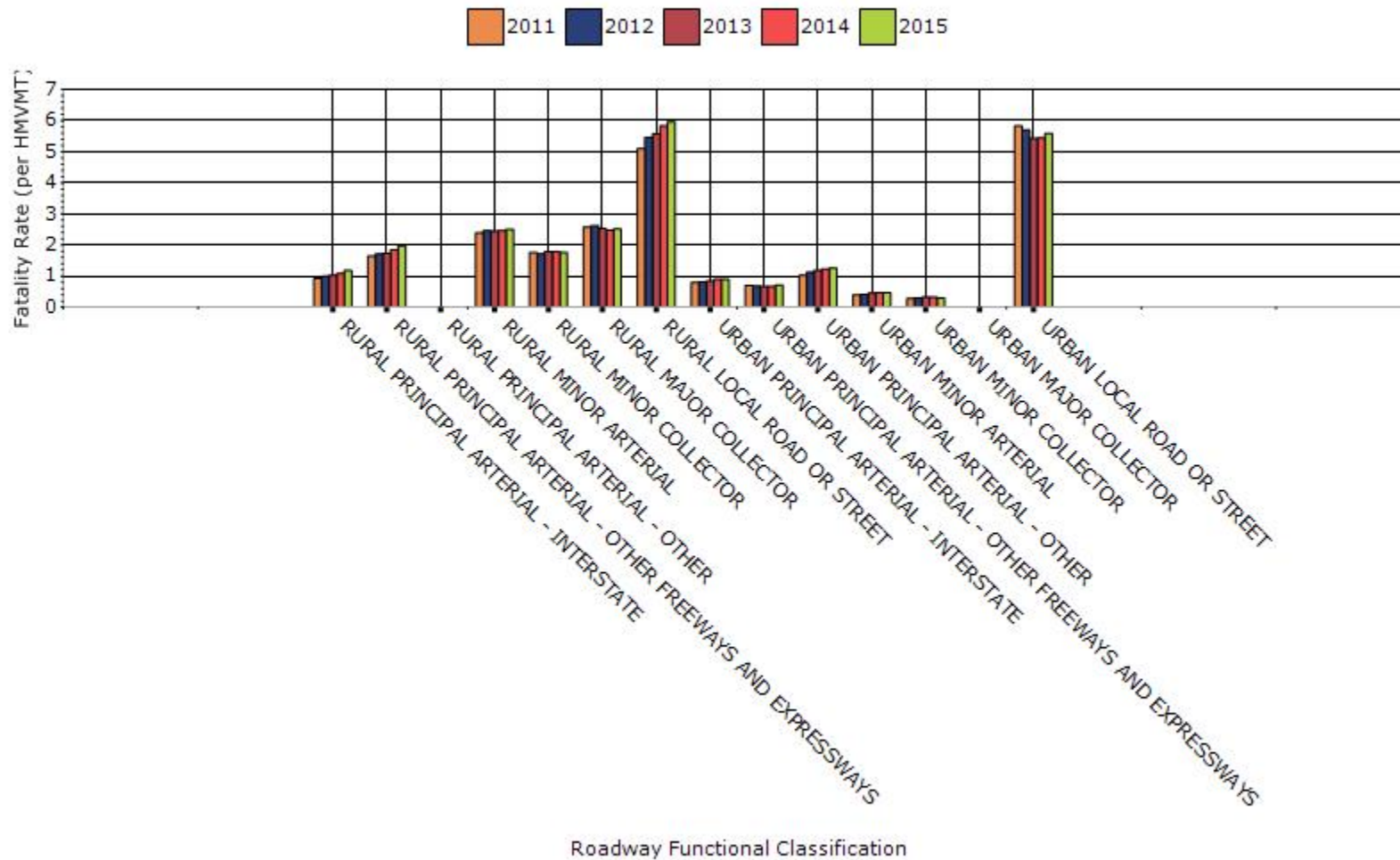
Fatalities by Roadway Functional Classification 5-yr Average Measure Data



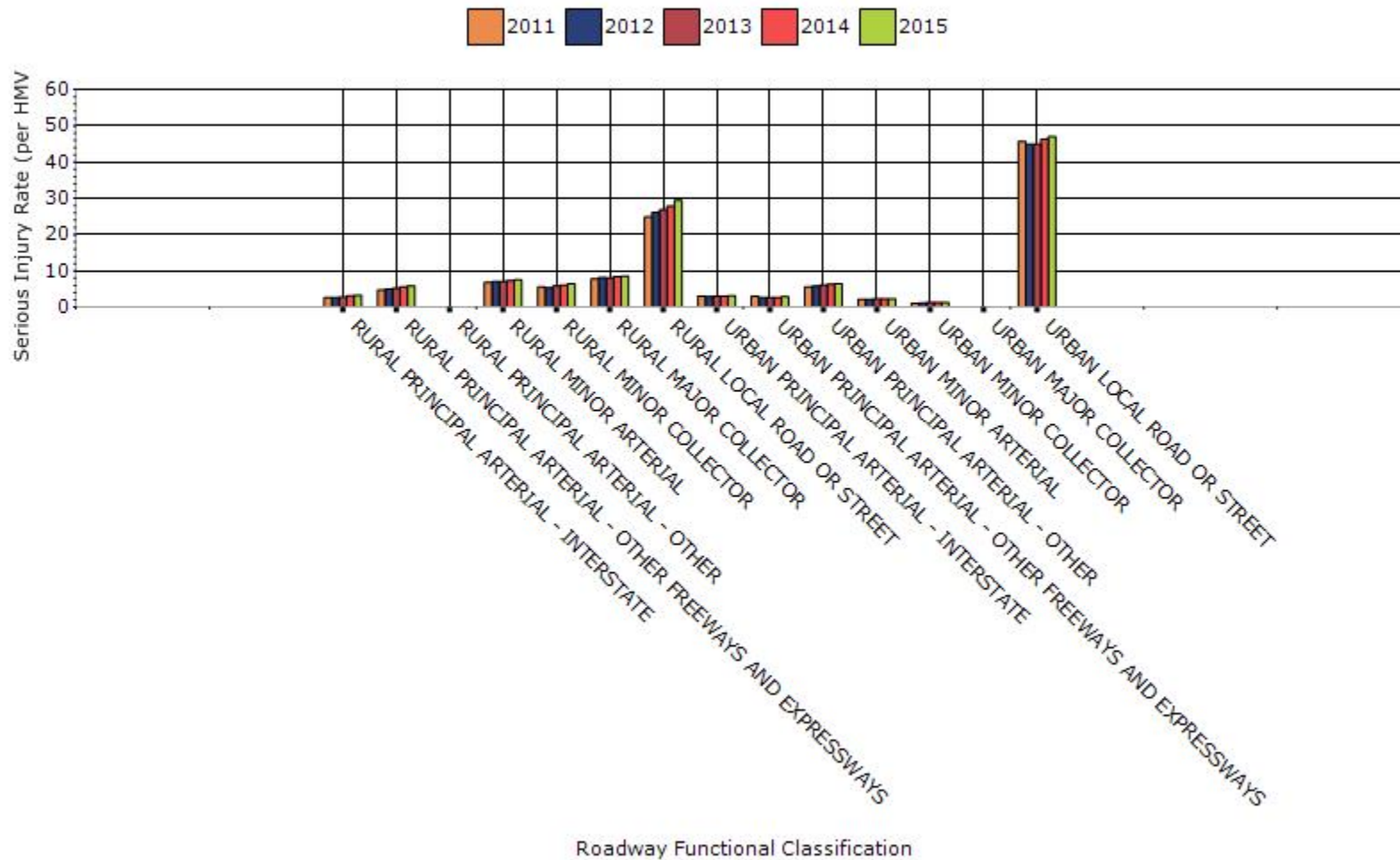
Serious Injuries by Roadway Functional Classification 5-yr Average Measure Data



Fatality Rate by Roadway Functional Classification 5-yr Average Measure Data



Serious Injury Rate by Roadway Functional Classification 5-yr Average Measure Data



We calculate Rural Principal Arterial - Other Freeways and Expressways & Rural Principal Arterial - Other together as one using Rural Principal Arterial.

We calculate Urban Minor Collector and Urban Major Collector as one using Urban Collector.

We do not collect Roadway Ownership.

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

Serious injuries are defined as Incapacitating injuries (A).

Application of Special Rules

27. Present the rate of traffic fatalities and serious injuries per capita for drivers and pedestrians 65 years of age and older.

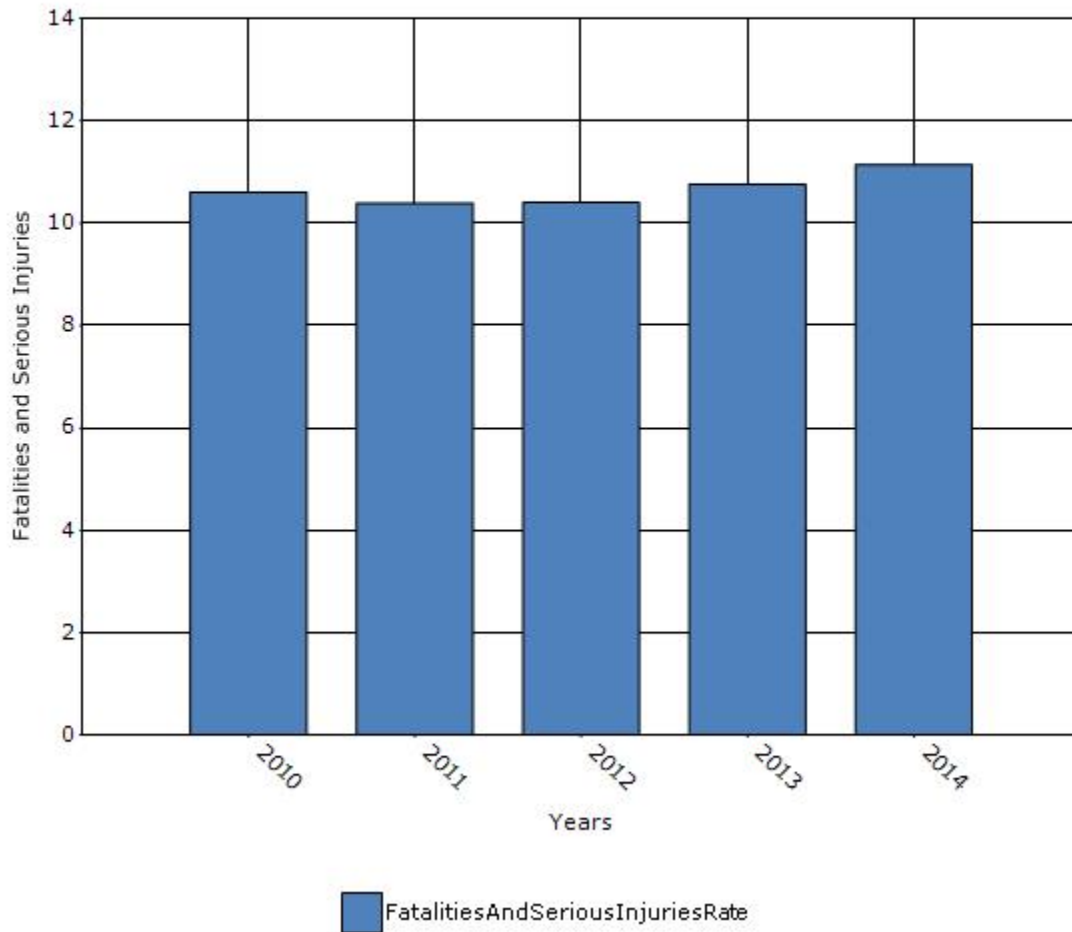
Older Driver Performance Measures	2010 (5-yr avg)	2011 (5-yr avg)	2012 (5-yr avg)	2013 (5-yr avg)	2014 (5-yr avg)
Fatality rate (per capita)	2.854	2.802	2.742	2.784	2.906
Serious injury rate (per capita)	7.752	7.59	7.664	7.978	8.238
Fatality and serious injury rate (per capita)	10.606	10.39	10.404	10.762	11.144

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

Fatality and Serious Injury Rate = (Fatalities(FARS) + Incapacitating Injuries)/65+Population(per 1,000 total population)

For the purpose of this analysis, serious injuries are defined as incapacitating injuries only.

Rate of Fatalities and Serious Injuries for the Last Five Years 5-yr Average Measure Data



28. Does the older driver special rule apply to your state?

Yes

If yes, describe the approach to include respective strategies to address the increase in those rates in the State SHSP.

The following strategies are identified in the current Texas Strategic Highway Safety Plan (SHSP). The countermeasures in the Handbook for Designing Roadways for the Aging Population (FHWA-SA-14-103) will be considered for inclusion in the SHSP.

Engineering

-Improve signing, modify traffic control devices and pavement markings to accommodate older drivers,

e.g., provide shoulder rumble strips, wider striping, illuminated street name signs.

-Add more turn bays and acceleration lanes on high speed rural roads.

-Eliminate limited sight distance on all roads. This includes high speed rural and urban intersections where sight distance limitations exist due to vegetation, signing, and other obstructions.

Education

-Improve driving competency of older adults by offering training programs.

-Communicate driving and licensing issues and alternative transportation options to older drivers and family members. (This communication should also include law enforcement and medical personnel and include educational materials regarding potential driving problems associated with aging and how to recognize them.)

Public Policy and Other

-Develop community mobility resource guide.

-Develop, implement, and otherwise encourage public/private partnerships that provide transportation alternatives to the personal vehicle.

-Provide vouchers for alternative transportation options.

-Develop incentives for older drivers to adopt advanced vehicle technologies that could assist them with age-related driving problems, e.g., back-up warning devices.

-Improve links among driver records, vehicle registration information and physical/functional impairments and medical conditions affecting driving capability.

Assessment of the Effectiveness of the Improvements (Program Evaluation)

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

Other-Decrease in number of fatal and serious injury crashes in SHSP emphasis areas.

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

None

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

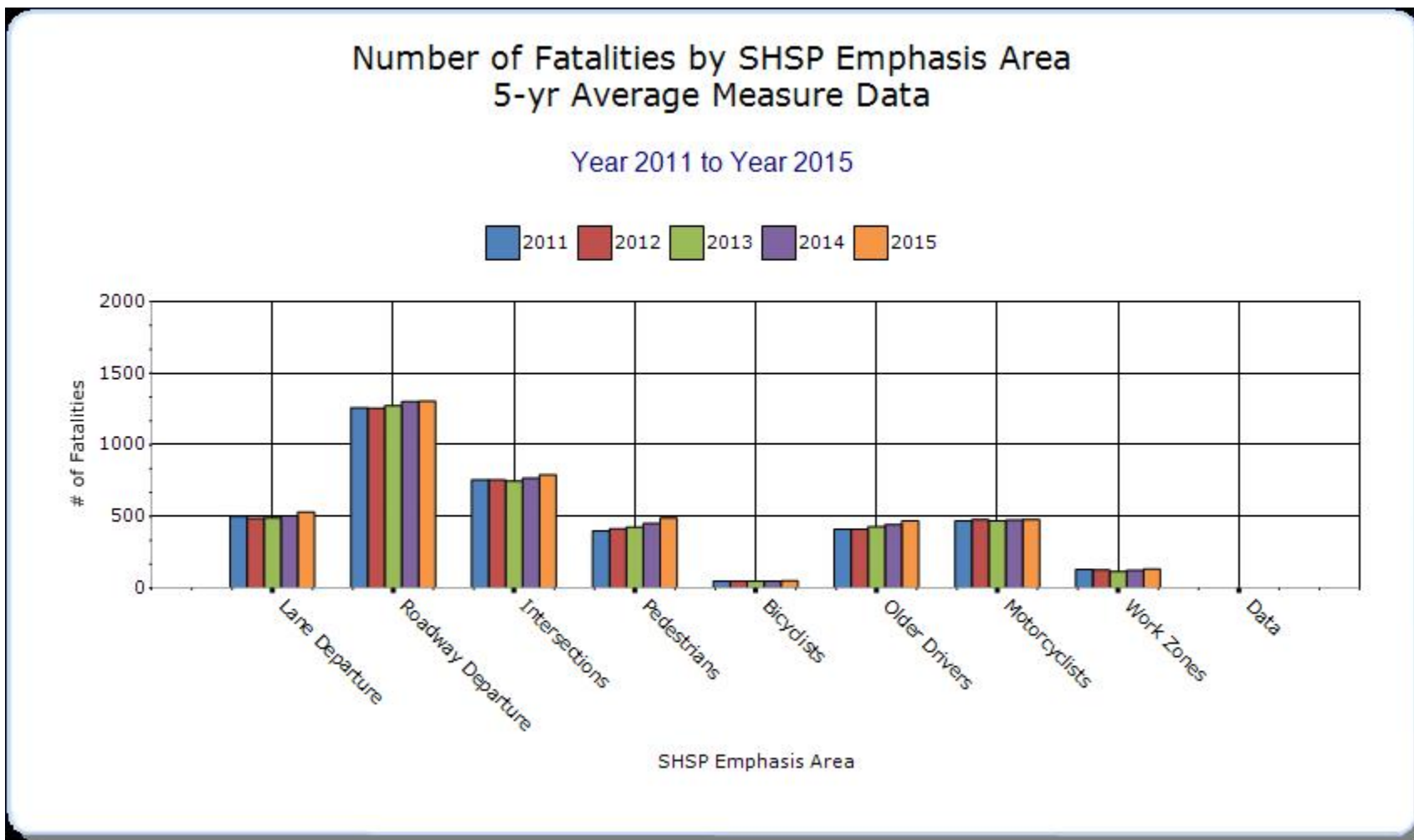
No significant program changes have occurred other than development of systemic improvements discussed in previous section.

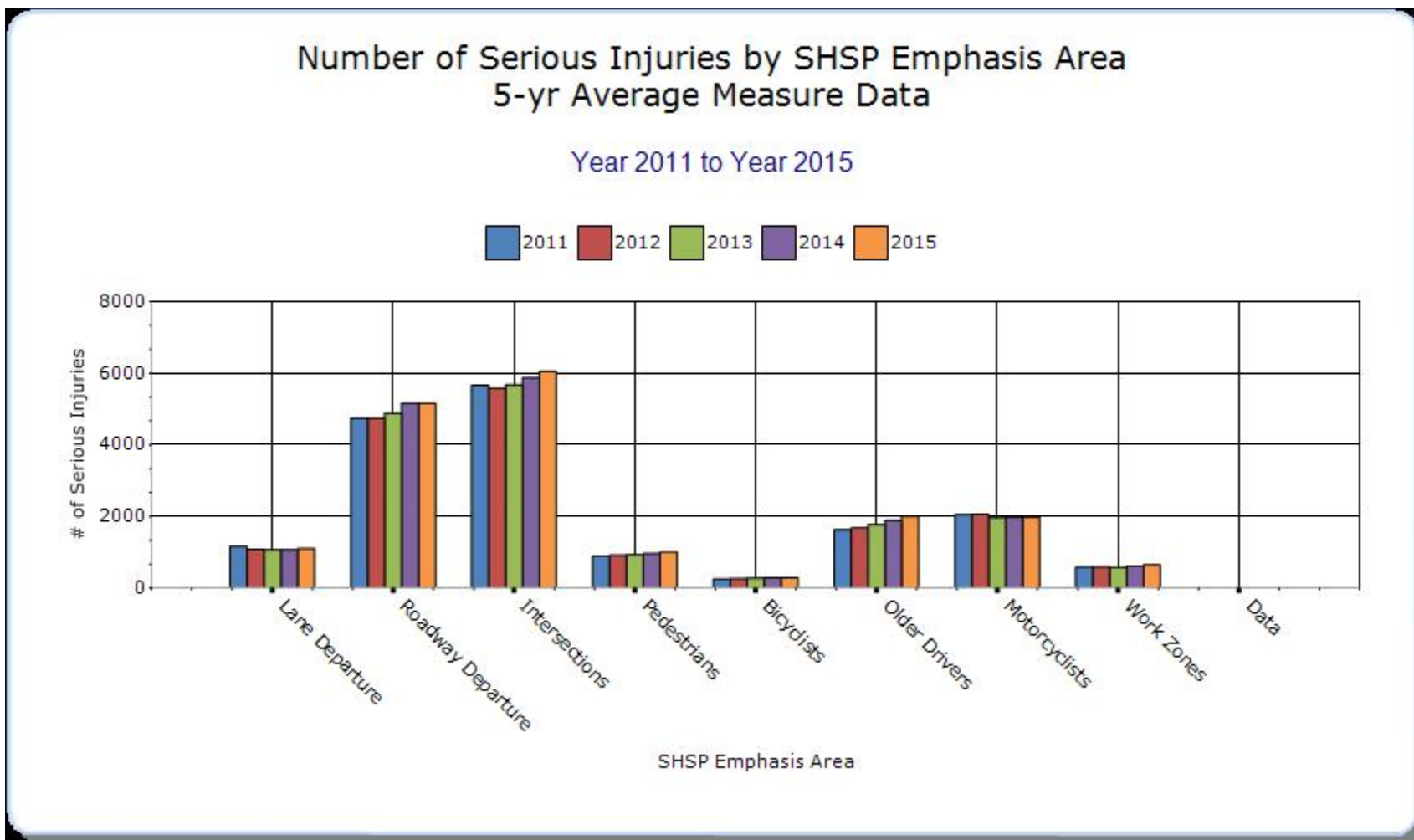
SHSP Emphasis Areas

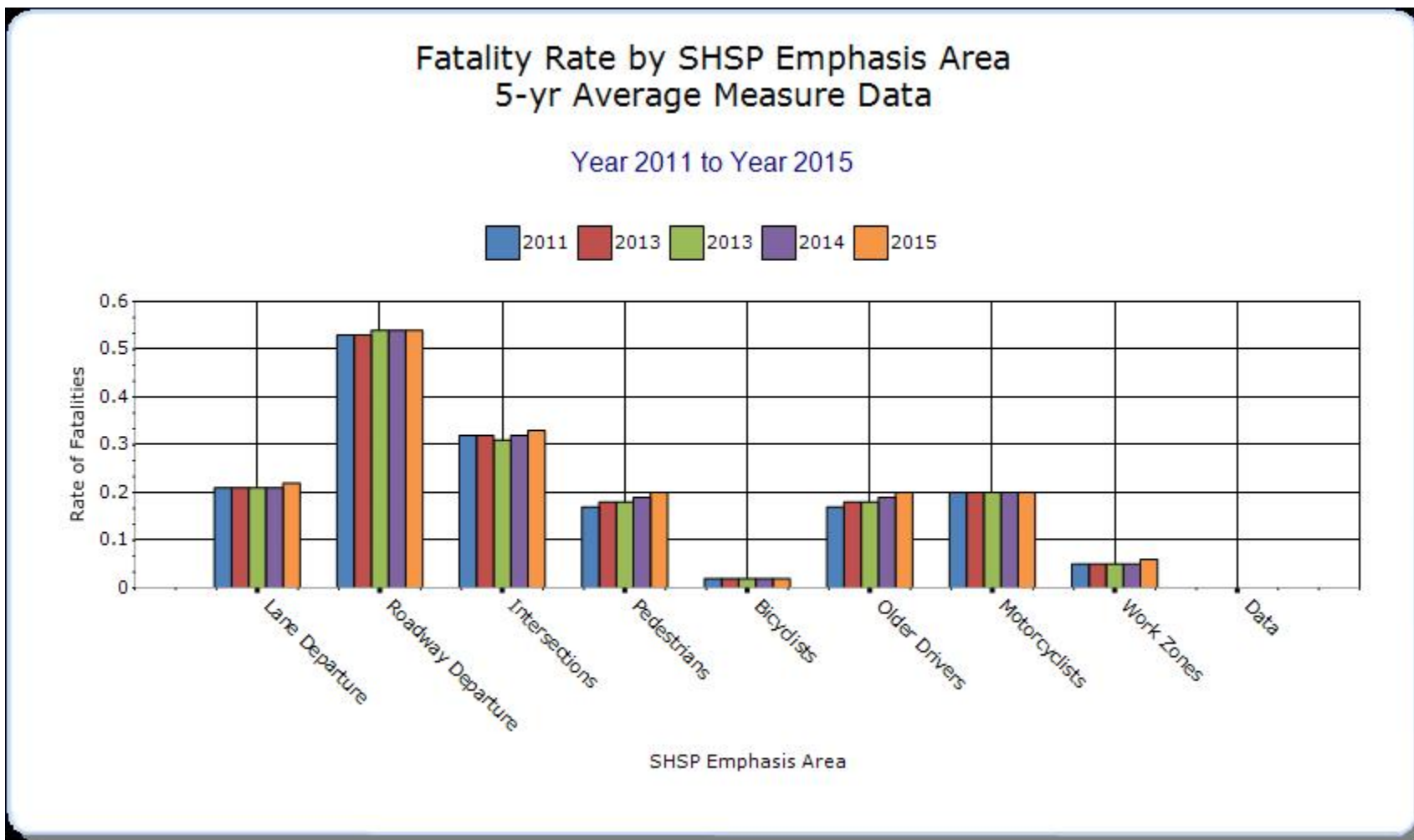
32. Present and describe trends in SHSP emphasis area performance measures.

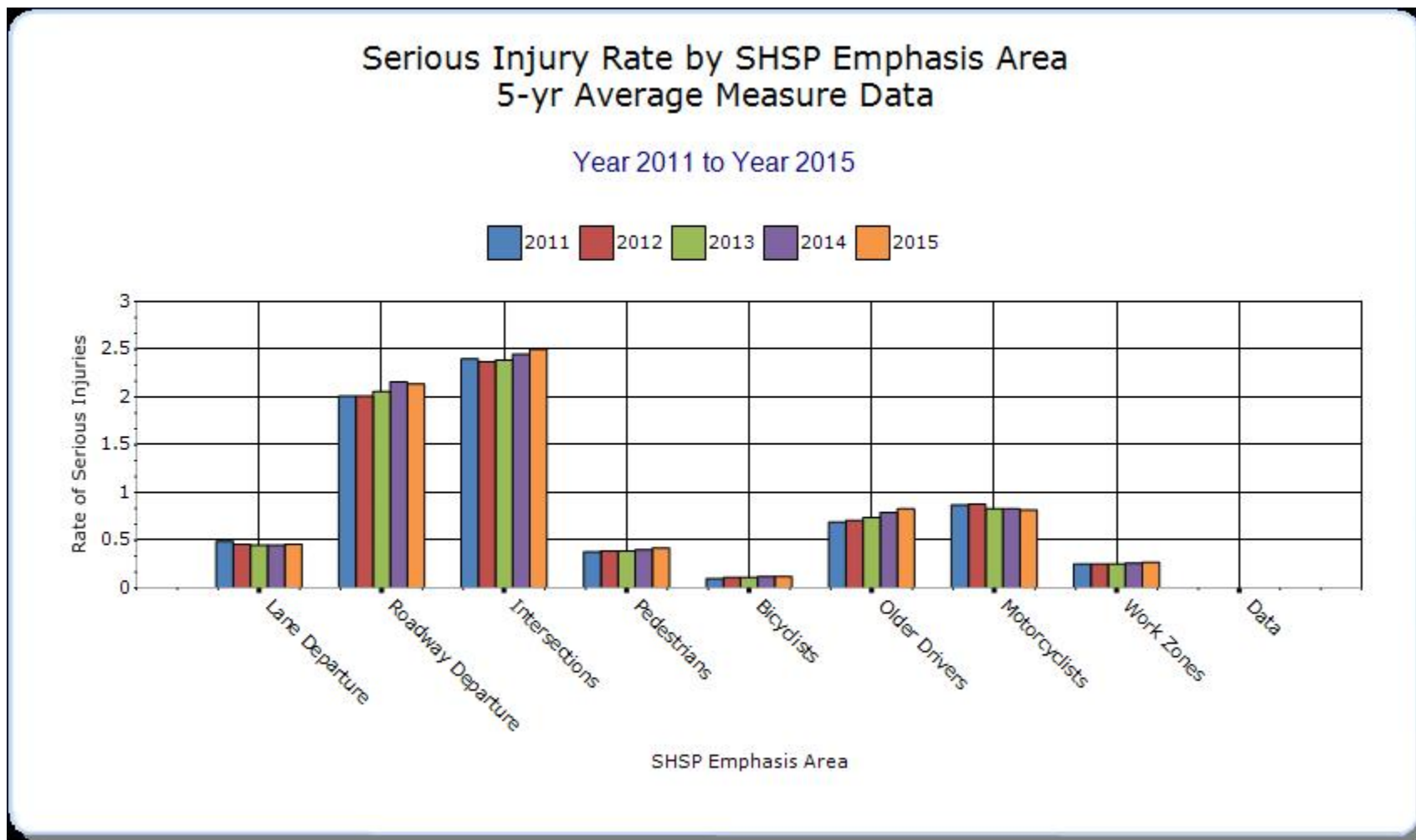
Year - 2015

HSIP-related SHSP Emphasis Areas	Target Crash Type	Number of fatalities (5-yr avg)	Number of serious injuries (5-yr avg)	Fatality rate (per HMVMT) (5-yr avg)	Serious injury rate (per HMVMT) (5-yr avg)	Other-1 (5-yr avg)	Other-2 (5-yr avg)	Other-3 (5-yr avg)
Lane Departure		529.6	1104	0.22	0.46			
Roadway Departure		1304.8	5162.6	0.54	2.14			
Intersections		792.2	6049.6	0.33	2.5			
Pedestrians		489	1015.4	0.2	0.42			
Bicyclists		50.4	289.6	0.02	0.12			
Older Drivers		468.4	2004.4	0.2	0.83			
Motorcyclists		478.2	1987.4	0.2	0.82			
Work Zones		131.6	651.8	0.06	0.27			









Older Driver data represents the number of people killed and seriously injured in crash involving an older driver, not just the older driver.

Older Drivers are defined as Age 65 and over.

Groups of similar project types

33. Present the overall effectiveness of HSIP subprograms.

Year - 2015

HSIP Sub-program Types	Target Crash Type	Number of fatalities (5-yr avg)	Number of serious injuries (5-yr avg)	Fatality rate (per HMVMT) (5-yr avg)	Serious injury rate (per HMVMT) (5-yr avg)	Other-1 (5-yr avg)	Other-2 (5-yr avg)	Other-3 (5-yr avg)
Other-No subprograms under HSIP								

Systemic Treatments

34. Present the overall effectiveness of systemic treatments.

Year - 2015

Systemic improvement	Target Crash Type	Number of fatalities (5-yr avg)	Number of serious injuries (5-yr avg)	Fatality rate (per HMVMT) (5-yr avg)	Serious injury rate (per HMVMT) (5-yr avg)	Other-1 (5-yr avg)	Other-2 (5-yr avg)	Other-3 (5-yr avg)
No HSIP funds are currently used for systemic improvements								

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

We do not have anything on which to elaborate.

Project Evaluation

36. 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)
N/A														0

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.

Systematic refers to an approach where an agency deploys countermeasures at all locations across a system.

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.