

ROSSWALK STOP ON RED

CALIFORNIA HIGHWAY SAFETY IMPROVEMENT PROGRAM 2017 ANNUAL REPORT

U.S. Department of Transportation Federal Highway Administration

Photo source: Federal Highway Administration

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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."

Executive Summary

The Moving Ahead for Progress in the 21st Century Act or "MAP-21" (Pub. L. 112-141, 126 Stat. 405), was signed into law July 6, 2012, and continued the Highway Safety Improvement Program (HSIP) as a core program under title 23 United States Code section 148 to reduce fatalities and injuries on all public roadways. Title 23 United States Code section 148(h) requires each state to submit an annual report to the Federal Highway Administration (FHWA) regarding its HSIP implementation and effectiveness and title 23 Code of Federal Regulations sections 924.15(a)(1) and 924.15(a)(2) specify that the report be submitted no later than August 31 of each year. This annual report describes the progress being made to implement projects and the status of program evaluations for the HSIP as described in Title 23 United States Code section 148, and for High-Risk Rural Roads (HR3) (23 U.S.C. § 148(g)). The Railway-Highway Crossings (23 U.S.C. § 130(g)) report is submitted to FHWA directly by the California Public Utility Commission as a separate report. Under the "MAP-21" (Pub. L. 112-141, July 6, 2012; 126 Stat. 405), the High-Risk Rural Roads program was merged into the HSIP for safety improvements on public rural roadways that meet the functional classification requirements of title 23 United States Code section 148(a)(1). In addition to the above, in accordance with title 23 United States Code section 164 repeat intoxicated transfer funds, approximately \$60.79 million was obligated for alcohol impaired driving countermeasures. Caltrans' Division of Traffic Operations provided information on the State Highway System (SHS) for this report, and Caltrans' Division of Local Assistance for local roads. Caltrans implements the HSIP for State highways by programming and funding projects in the Collision Reduction Category, one of eight categories that make up the State Highway Operation and Protection Program (SHOPP). The Collision Reduction Category is further divided into two programs: Safety Improvement and Collision Severity Reduction. The Safety Improvement Program is among Caltrans' top priorities in the SHOPP. The projects evaluated in this report are funded by the Collision Reduction Category, which includes both federal HSIP and State highway funds.

The Fixing America's Surface Transportation (FAST) Act was signed into law on December 4, 2015 and continued the Highway Safety Improvement Program (HSIP) with only minor changes. The FAST Act confirmed the overall purpose of this program is to achieve a significant reduction in traffic fatalities and serious injuries on all public roads through the implementation of infrastructure-related highway safety improvements.

Caltrans uses raw collision data on the state highway system from California Highway Patrol's SWITRS (Statewide Integrated Traffic Record System) database. Raw collision data were later imported and reconfigured in to the Transportation System Network (TSN) Caltrans database. The purpose of having another system database is to provide users the ability to select and export data based on certain needs. According to 2014 Collision Data on California State Highways, there were 15,079.1 road miles and 178,325.2 million vehicle miles traveled. Total collision rate was 0.81 collisions per million vehicle miles and 0.28 fatal + injury per million vehicle miles. There were a total of 144,423 collisions, there were a total of 1,260 persons killed and 70,753 injured. Caltrans estimates that these collisions resulted in societal economic losses of approximately \$19.6 billion assuming collision costs for various injury severities derived by the National Safety Council. High concentration collisions locations are identified and systematically investigated to determine probable causes of the collisions in order to implement effective countermeasures to improve safety. Other locations identified for investigation and possible implementation of countermeasures are generated from Monitoring Programs: Cross Median Collisions, Two and Three Lane Cross Centerline Collisions, Wrong Way Collisions,

and Pedestrian Collisions. The HSIP and other State programs have contributed to making highways safer through the implementation of highway safety projects.

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.

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 Reporting Guidance dated December 29, 2016 and consists of five sections: program structure, progress in implementing highway safety improvement projects, progress in achieving safety outcomes and performance targets, effectiveness of the improvements and compliance assessment.

Program Structure

Program Administration

Describe the general structure of the HSIP in the State.

Traffic Operations addresses the state highway system and local agencies address all other public roads.

Where is HSIP staff located within the State DOT?

Other-Traffic Operations and Local Assistance

Enter additional comments here to clarify your response for this question or add supporting information.

How are HSIP funds allocated in a State?

Central Office via Statewide Competitive Application Process

Enter additional comments here to clarify your response for this question or add supporting information.

At the Division of Local Assistance, there is a competitive application process; however, there is no competitive application process at the State. All HSIP projects are funded when HQ approves and concurs based on if a project meets minimum criteria such as with a minimum collision threshold, effective countermeasures selection, safety index greater than or equal to 200, and all required documents are submitted.

Describe how local and tribal roads are addressed as part of HSIP.

Caltrans Division of Local Assistance (DLA) uses an HSIP application benefit-cost tool to provide a consistent, data-driven methodology for ranking local roadway (non-State owned and operated) project applications on a statewide basis. This tool was developed by the DLA in conjunction with the University of California, Berkeley, Safe Transportation Research and Education Center. The DLA HSIP also provides the Local Roadway Safety Manual for California local road owners and directly incorporates UC Berkeley's

Transportation Injury Mapping System website to assist applicants applying for local HSIP funds. These tools and resources encourage local agencies to proactively analyze their roadway networks for the highest crash locations and develop and submit applications with the greatest chance of reducing fatalities and serious injuries using low cost proven systemic countermeasures. The DLA HSIP application process is also open and available to the tribes that would like to submit an application for HSIP funds. However, due to lack of time, resources, experience and data at the tribes very few applications if any are submitted.

Identify which internal partners (e.g., State departments of transportation (DOTs) Bureaus, Divisions) are involved with HSIP planning.

Traffic Engineering/Safety Planning Operations Districts/Regions Local Aid Programs Office/Division Other-Research Innovation and System Information

Enter additional comments here to clarify your response for this question or add supporting information.

Describe coordination with internal partners.

On the State Highway System, the Traffic Safety and Mobility Program in Headquarters within the Division of Traffic Operations works with the Division of Planning, Division of Programming, Division of Research Innovation and System Information, and 12 Caltrans district offices to develop Project Initiation Documents to program projects. For local roads, Caltrans Division of Local Assistance (DLA) staff manage the local agency share of HSIP funds in conjunction with its local agency partners. The DLA prepares the HSIP guidelines and solicits project applications from local agencies.

Traffic Operations annually provide a list of high collision concentration locations to 12 districts. Each district's traffic investigation is required to investigate and respond with possible safety improvement recommendation and countermeasures. Traffic Operations is to concur with district's response and recommendation before any major safety improvement project can be initiated.

Identify which external partners are involved with HSIP planning.

Regional Planning Organizations (e.g. MPOs, RPOs, COGs) Governors Highway Safety Office Local Technical Assistance Program Local Government Agency Tribal Agency Academia/University FHWA

Enter additional comments here to clarify your response for this question or add supporting information.

Describe coordination with external partners.

Caltrans has been working with 400 stakeholders from 170 public & private agencies including tribal agency, local technical assistance program, and universities to develop CA-SHSP. Projects developed are consistent with SHSP strategies. Caltrans' DLA with local agencies are involved in planning projects on local roads.

Caltrans coordinates with FHWA by asking for guidance and interpretation of HSIP funding criteria and other FHWA legislative requirements.

Have any program administration practices used to implement the HSIP changed since the last reporting period?

No

Are there any other aspects of HSIP Administration on which the State would like to elaborate?

No

Program Methodology

Does the State have an HSIP manual or similar that clearly describes HSIP planning, implementation and evaluation processes?

Yes

To upload a copy of the State processes, attach files below.

File Name: 2017 STATE HSIP GUIDELINES FINAL.pdf

Select the programs that are administered under the HSIP.

Median Barrier HSIP (no subprograms) Roadway Departure Pedestrian Safety Wrong Way Driving Other--2 and 3 Ln Cross Centerline Collision Monitoring Pro

Enter additional comments here to clarify your response for this question or add supporting information.

HSIP (no subprograms)*- based on benefit/cost analysis in term of safety index greater than 200 and the effective cost of countermeasures.

Wrong Way Driving* - based on minimum collision threshold and effective countermeasures.

Median Barrier - based on minimum collision threshold and effective countermeasures.

Roadway Departure (Run of Road) - based on minimum collision threshold and effective countermeasures.

2-3-lane cross centerline collision monitoring program - based on minimum collision threshold and effective countermeasures.

Pedestrian Safety - based on minimum collision threshold and effective countermeasures.

Program:	HSIP (no subprograms)
	instra (no suoprograms)

Date of Program Methodology: 6/20/2017

What is the justification for this program? [Check all that apply]

Addresses SHSP priority or emphasis area

What is the funding approach for this program? [Check one]

Funding set-aside

What data types were used in the program methodology? [Check all that apply]

Crashes

Exposure

Roadway

All crashes Fatal and serious injury crashes only

Volume Lane miles Median width Functional classification

What project identification methodology was used for this program? [Check all that apply]

Crash frequency Crash rate

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

No

Are local road projects identified using the same methodology as state roads?

Describe the methodology used to identify local road projects as part of this program.

How are projects under this program advanced for implementation?

Competitive application process Other-meet minimum criteria

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).

Rank of Priority Consideration

Other-meet minimum criteria : 100

Enter additional comments here to clarify your response for this question or add supporting information. At the Division of Local Assistance, there is a competitive application process; however, there is no competitive application process at the State. All HSIP projects are funded when HQ approves and concurs based on if a project meets minimum criteria such as with a minimum collision threshold, effective countermeasures selection, safety index greater than or equal to 200, and all required documents are submitted.

Program:	Median Barrier	
Date of Program Methodology:	11/15/1977	
What is the justification for this pr	ogram? [Check all that apply]	
Addresses SHSP priority or emphasis	s area	
What is the funding approach for t	this program? [Check one]	
Funding set-aside		
What data types were used in the p	orogram methodology? [Check all t	hat apply]
Crashes	Exposure	Roadway
All crashes Fatal crashes only	Volume	Median width Functional classification
What project identification method	lology was used for this program?	[Check all that apply]
Crash frequency Crash rate		

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

No

Are local road projects identified using the same methodology as state roads?

Describe the methodology used to identify local road projects as part of this program.

How are projects under this program advanced for implementation?

Other-Any project that meets the established Median Barrier criteria for project selection can be programmed

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).

Rank of Priority Consideration

Other-Collision and volume warrants : 100

Enter additional comments here to clarify your response for this question or add supporting information.

Program:	Pedestrian Safety
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Date of Program Methodology: 6/20/2017

What is the justification for this program? [Check all that apply]

Addresses SHSP priority or emphasis area

What is the funding approach for this program? [Check one]

Funding set-aside

What data types were used in the program methodology? [Check all that apply]

Crashes

Exposure

Roadway

All crashes	
Fatal and serious injury crashes only	

Volume Lane miles

Functional classification

What project identification methodology was used for this program? [Check all that apply]

Crash frequency Crash rate

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

No

Are local road projects identified using the same methodology as state roads?

Describe the methodology used to identify local road projects as part of this program.

How are projects under this program advanced for implementation?

Competitive application process

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).

Rank of Priority Consideration

Other-meet minimum criteria : 100

Enter additional comments here to clarify your response for this question or add supporting information.

Program:	Roadway Departure

Date of Program Methodology: 11/15/2004

What is the justification for this program? [Check all that apply]

Addresses SHSP priority or emphasis area

What is the funding approach for this program? [Check one]

Funding set-aside

What data types were used in the program methodology? [Check all that apply]

Crashes

Exposure

Roadway

Volume Lane miles Other-Fatal and injury crashes on Wet Pavement Functional classification Roadside features Other-Fatal and injury crashes resulting in Overturned Vehicle

What project identification methodology was used for this program? [Check all that apply]

Crash frequency Crash rate Other-see the optional description for this question

Other-see the optional description

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

No

Are local road projects identified using the same methodology as state roads?

Describe the methodology used to identify local road projects as part of this program.

How are projects under this program advanced for implementation?

Other-see the optional description for this question

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

Relative Weight in Scoring

Other-100% top 25% of run-off-road concentration locations with higher scores +100% of identified long segments selected based on collision frequency, roadway type, geometric characteristics and traffic volume. : 100

Total Relative Weight: 100

Enter additional comments here to clarify your response for this question or add supporting information.

Program:

Wrong Way Driving

Date of Program Methodology: 1/15/1985

What is the justification for this program? [Check all that apply]

Addresses SHSP priority or emphasis area

What is the funding approach for this program? [Check one]

Funding set-aside

What data types were used in the program methodology? [Check all that apply]

Crashes	Exposure	Roadway
All crashes Fatal and serious injury crashes only	Volume Lane miles	Functional classification
What project identification methodology	was used for this program?	[Check all that apply]

Crash frequency Crash rate

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

No

Are local road projects identified using the same methodology as state roads?

Describe the methodology used to identify local road projects as part of this program.

How are projects under this program advanced for implementation?

Competitive application process

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

Relative Weight in Scoring

Other-crash frequency and crash rate : 100

Total Relative Weight : 100

Enter additional comments here to clarify your response for this question or add supporting information.

Program:	Other2 and 3 Ln Cross Centerline Collision Monitoring Pro					
Date of Program Methodology:	1/15/1985					
What is the justification for this pro	ogram? [Check all that apply]					
Addresses SHSP priority or emphasis	area					
What is the funding approach for the	his program? [Check one]					
Funding set-aside						
What data types were used in the p	rogram methodology? [Check all that apply]	i de la constante de				
		.				
Crashes	Exposure	Roadway				
Fatal crashes only Other-See optional description pertaining to this subprogram	Volume Lane miles	Functional classification				
What project identification method	ology was used for this program? [Check all	that apply]				
Crash frequency Crash rate						
Are local roads (non-state owned ar	nd operated) included or addressed in this pr	ogram?				
No						
Are local road projects identified using the same methodology as state roads?						
Describe the methodology used to id	dentify local road projects as part of this pro	gram.				

How are projects under this program advanced for implementation?

Other-All projects meeting established criteria can be programmed

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).

2017 California Highway Safety Improvement Program **Relative Weight in Scoring**

Other-Crash frequency and rate : 100

Total Relative Weight : 100

Enter additional comments here to clarify your response for this question or add supporting information.

What percentage of HSIP funds address systemic improvements?

60.5

HSIP funds are used to address which of the following systemic improvements? Please check all that apply.

Cable Median Barriers Rumble Strips Traffic Control Device Rehabilitation Pavement/Shoulder Widening Install/Improve Signing Install/Improve Pavement Marking and/or Delineation Upgrade Guard Rails Clear Zone Improvements Safety Edge Install/Improve Lighting Add/Upgrade/Modify/Remove Traffic Signal Horizontal curve signs High friction surface treatment Wrong way driving treatments Other-Median Barrier (see optional description)

Enter additional comments here to clarify your response for this question or add supporting information.

What process is used to identify potential countermeasures? [Check all that apply]

Engineering Study Road Safety Assessment Crash data analysis SHSP/Local road safety plan Data-driven safety analysis tools (HSM, CMF Clearinghouse, SafetyAnalyst, usRAP) Stakeholder input

Enter additional comments here to clarify your response for this question or add supporting information.

2017 California Highway Safety Improvement Program Does the State HSIP consider connected vehicles and ITS technologies?

No

Enter additional comments here to clarify your response for this question or add supporting information.

Does the State use the Highway Safety Manual to support HSIP efforts?

No

Enter additional comments here to clarify your response for this question or add supporting information. Currently, we are not using HSM to support HSIP; however, we are trying to integrate the HSM to support HSIP efforts in the future, including identification of investigation locations and cost/benefit analysis.

Have any program methodology practices used to implement the HSIP changed since the last reporting period?

Yes

Describe program methodology practices that have changed since the last reporting period.

The 2014 HSIP Guidelines are now updated to 2017 HSIP Guidelines for HSIP implementation. Update of methods of reviewing safety projects and including collisions reduced calculations. Pedestrian safety monitoring program is now also included. A HSIP Program Assessment was completed in 2016 from which a gap analysis was developed and will be tracked until all gaps are filled.

Are there any other aspects of the HSIP methodology on which the State would like to elaborate?

No

Project Implementation

Funds Programmed

Reporting period for HSIP funding.

State Fiscal Year

Enter additional comments here to clarify your response for this question or add supporting information.

Based on state fiscal year calendar - starting from July 1 2016 - June 30, 2017

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

FUNDING CATEGORY	PROGRAMMED	OBLIGATED	% OBLIGATED/PROGRAMMED		
HSIP (23 U.S.C. 148)	\$573,013,200	\$390,723,720	68.19%		
HRRR Special Rule (23 U.S.C. \$8,161,498 148(g)(1))		\$8,161,498	100%		
Penalty Funds (23 U.S.C. 154)	\$24,628,967	\$24,628,967	100%		
Penalty Funds (23 U.S.C. 164)	\$47,364,675	\$47,364,675	100%		
RHCP (for HSIP purposes) (23 U.S.C. 130(e)(2))	\$15,726,725	\$15,726,725	100%		
Other Federal-aid Funds (i.e. STBG, NHPP)	\$32,349,217	\$32,349,217	100%		
State and Local Funds	\$696,513,200	\$220,000,000	31.59%		
Totals	\$1,397,757,482	\$738,954,802	52.87%		

Enter additional comments here to clarify your response for this question or add supporting information.

More HSIP funds are expected to be obligated by end of fiscal year, June 30, 2018.

Funding Category Descriptions: HSIP (23 U.S.C 148) is Federal HSIP Funding for Caltrans State and Local side; State and Local Funds are combination of Federal HSIP Funding and State HSIP Funding, which includes State Highway Operation and Protection Program (SHOPP) funds.

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

\$123,500,000

How much funding is obligated to local or tribal safety projects?

\$97,000,000

Enter additional comments here to clarify your response for this question or add supporting information.

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

\$0

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

\$0

Enter additional comments here to clarify your response for this question or add supporting information.

There is no Non-Infrastructure Safety Projects from the State; however, Division of Local Assistance has Non-Infrastructure Safety Projects. They are funded by State HSIP but not Federal HSIP.

How much funding was transferred in to the HSIP from other core program areas during the reporting period under 23 U.S.C. 126?

\$0

How much funding was transferred out of the HSIP to other core program areas during the reporting period under 23 U.S.C. 126?

\$0

Enter additional comments here to clarify your response for this question or add supporting information.

Discuss impediments to obligating HSIP funds and plans to overcome this challenge in the future.

In the past year, local HSIP project delivery has been enforced through (1) monthly update of delivery status report posted in the DLA website, (2) HSIP manager's phone calls and emails to district focal-point contacts responsible for monitoring project delivery, (3) the set drop-dead dates for late projects in various previous project cycles, (4) requesting local agencies to send HSIP program an official delivery commitment letter for project delay request, and (5) efforts made by various Local Advisory Committee members. This is proved to be successful and is now a Local HSIP policy that all current projects programmed need to have construction authorization within five years of being programmed. Project delivery delay flags are held in place for PE Authorization and Construction Authorization to alarm local agencies with delayed project flags that they will be ineligible to apply any future HSIP funding until these flags are cleared.

Does the State want to elaborate on any other aspects of it's progress in implementing HSIP projects?

Yes

Describe any other aspects of the State's progress in implementing HSIP projects on which the State would like to elaborate.

The DLA is investigating with the help of locals and FHWA the delay that is caused by unnecessary environmental requirements in streamlining HSIP projects. Also, we may discuss the set aside program, SSARP, in the next annual report since the SSARP hasn't been completed yet.

General Listing of Projects

List the projects obligated using HSIP funds for the reporting period.

													RELATIONS	HIP TO SHSP
PROJECT NAME	IMPROVEMENT CATEGORY	SUBCATEGORY	OUTPUTS	OUTPUT TYPE	HSIP PROJECT COST(\$)	TOTAL PROJECT COST(\$)	FUNDING CATEGORY	FUNCTIONAL CLASSIFICATION	AADT	SPEED	OWNERSHIP	METHOD FOR SITE SELECTION	EMPHASIS AREA	STRATEGY
Safety Improvement	Roadway signs and traffic control	Sign sheeting - upgrade or replacement	33	Signal heads	\$5000000	\$7000000	HSIP (23 U.S.C. 148)	Urban Local Road or Street	· · · · · · · · · · · · · · · · · · ·	45	State Highway Agency	Spot	Intersections	Intersection Safety

Enter additional comments here to clarify your response for this question or add supporting information.

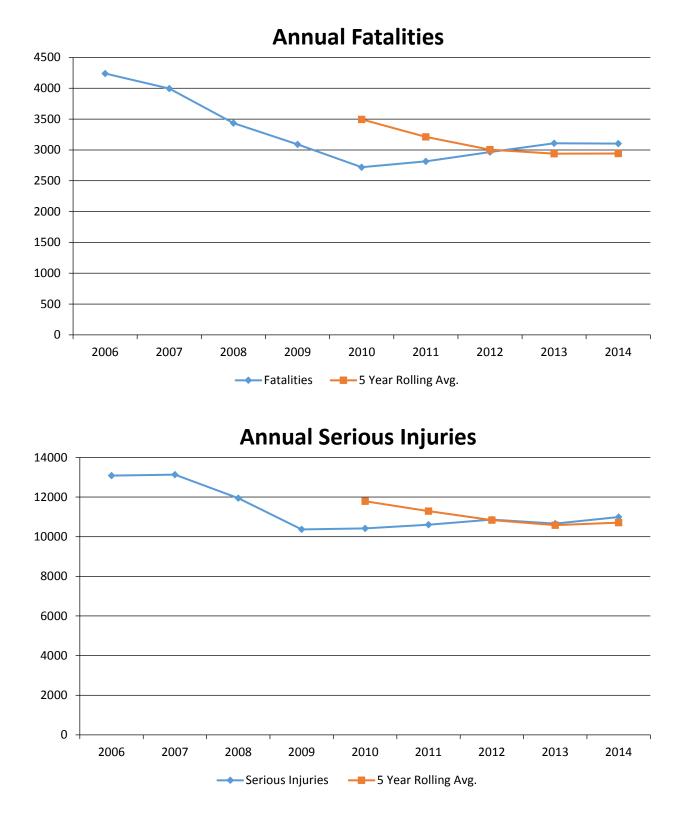
Note: CA Highway Safety Improvement Program list of projects table is different from Division of Local Assistance HSIP list of projects table. For example, CA HSIP keeps track of certain information that are available and pertaining to our programs and operations.

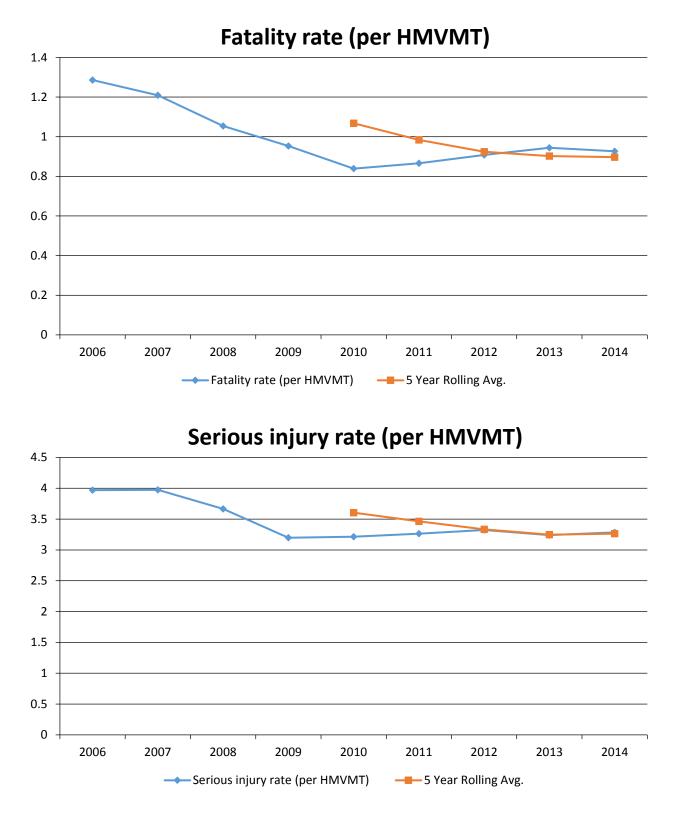
Safety Performance

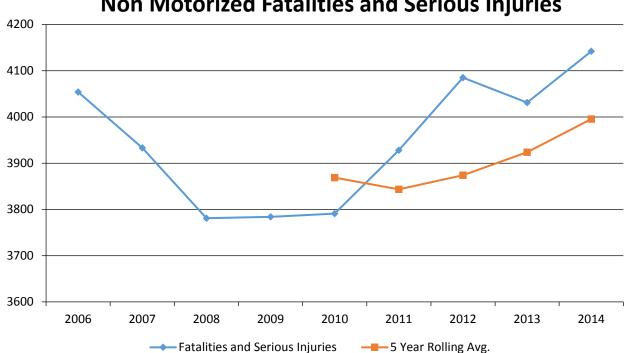
General Highway Safety Trends

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

PERFORMANCE MEASURES	2006	2007	2008	2009	2010	2011	2012	2013	2014
Fatalities	4,240	3,995	3,434	3,090	2,720	2,816	2,966	3,107	3,102
Serious Injuries	13,089	13,133	11,943	10,369	10,423	10,607	10,864	10,664	10,995
Fatality rate (per HMVMT)	1.286	1.209	1.054	0.953	0.839	0.866	0.908	0.944	0.927
Serious injury rate (per HMVMT)	3.969	3.975	3.666	3.198	3.215	3.263	3.324	3.240	3.285
Number non-motorized fatalities	919	823	791	714	760	807	878	951	933
Number of non-motorized serious injuries	3,135	3,110	2,990	3,070	3,031	3,121	3,207	3,080	3,209







Non Motorized Fatalities and Serious Injuries

Enter additional comments here to clarify your response for this question or add supporting information.

Dates are preset from 2010 to 2014.

Describe fatality data source.

State Motor Vehicle Crash Database

Enter additional comments here to clarify your response for this question or add supporting information.

Caltrans requested the latest SWITRS data (raw data that contains all roadway types in CA) available through our external partner - California Highway Patrol. Working on raw data to extract data from Caltrans state highway system has been a challenge to achieve high level of confidence. SWITRS - Statewide Integrated Traffic Records System (Database). We also use FARS to cross check our numbers. Caltrans uses SWITRS data for all their numbers and rates.

To the maximum extent possible, present this data by functional classification and ownership.

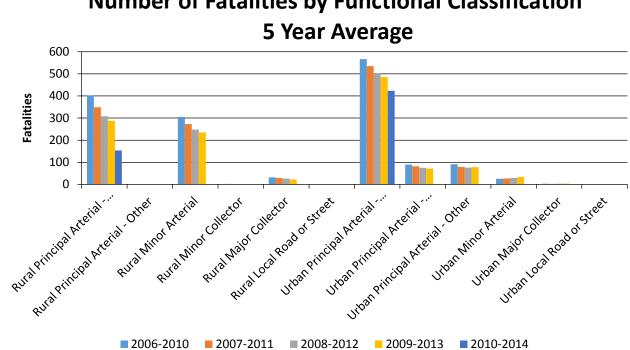
Year 2014

Functional 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	153		0.68	

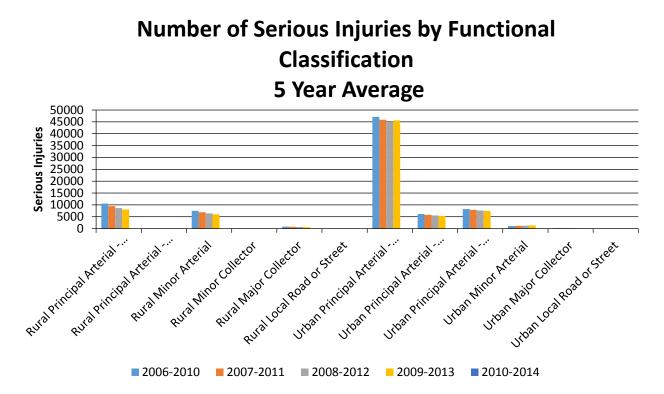
Functional Classification	Number of Fatalities (5-yr avg)	Number of Serious Injuries (5-yr avg)	Fatality Rate (per HMVMT) (5-yr avg)	Serious Injury Rate (per HMVMT) (5-yr avg)
Rural Principal Arterial - Other Freeways and Expressways				
Rural Principal Arterial - Other				
Rural Minor Arterial				
Rural Minor Collector				
Rural Major Collector				
Rural Local Road or Street				
Urban Principal Arterial - Interstate	423		0.39	
Urban Principal Arterial - Other Freeways and Expressways				
Urban Principal Arterial - Other				
Urban Minor Arterial				
Urban Minor Collector				
Urban Major Collector				
Urban Local Road or Street				

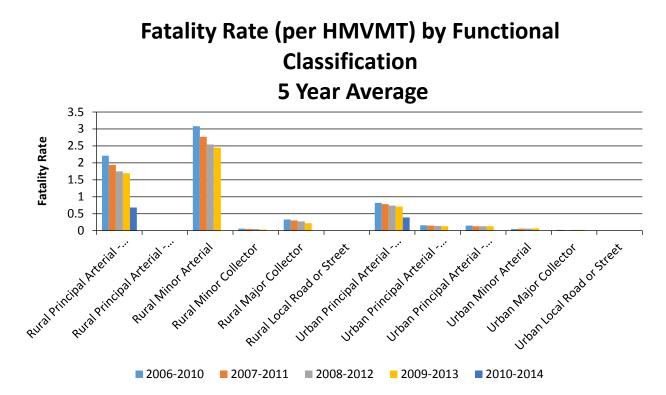
Roadways	Number of Fatalities (5-yr avg)	Number of Serious Injuries (5-yr avg)	Fatality Rate (per HMVMT) (5-yr avg)	Serious Injury Rate (per HMVMT) (5-yr avg)
State Highway Agency	2,942.2	10,710.6	0.9	3.27
County Highway Agency				
Town or Township Highway Agency				
City of Municipal Highway Agency				
State Park, Forest, or Reservation Agency				
Local Park, Forest or Reservation Agency				
Other State Agency				
Other Local Agency				
Private (Other than Railroad)				
Railroad				
State Toll Authority				
Local Toll Authority				
Other Public Instrumentality (e.g. Airport, School, University)				
Indian Tribe Nation				

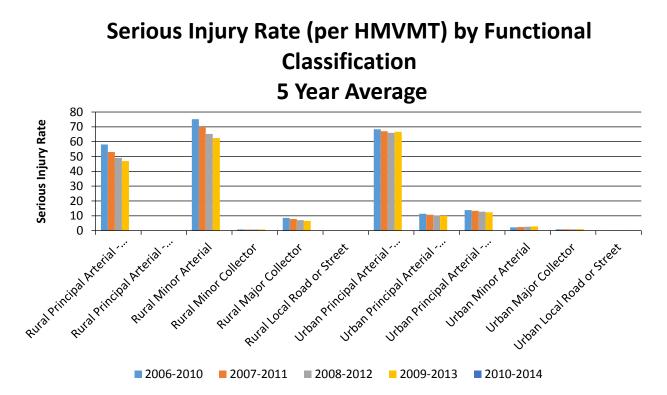
Year 2014

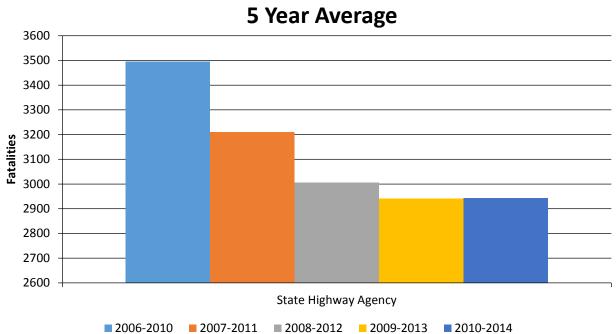


Number of Fatalities by Functional Classification

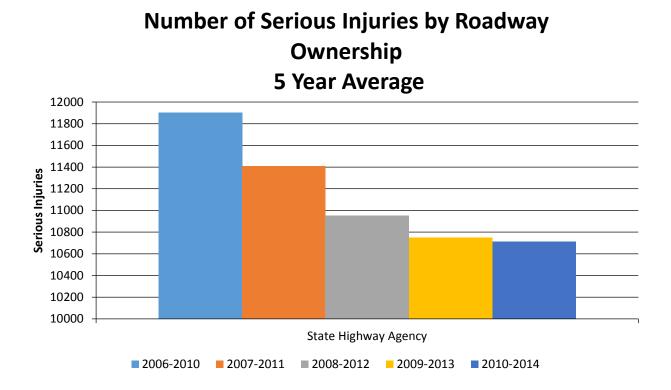


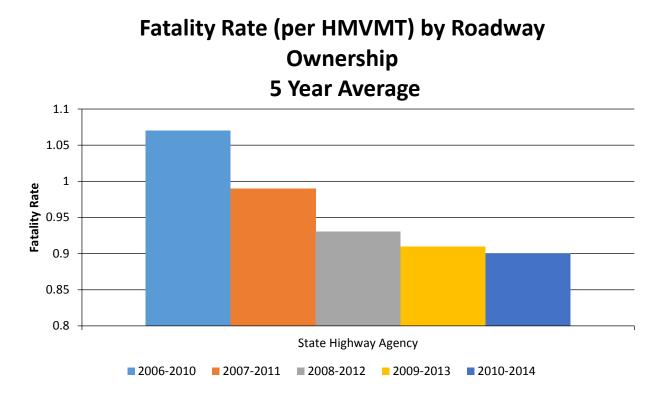


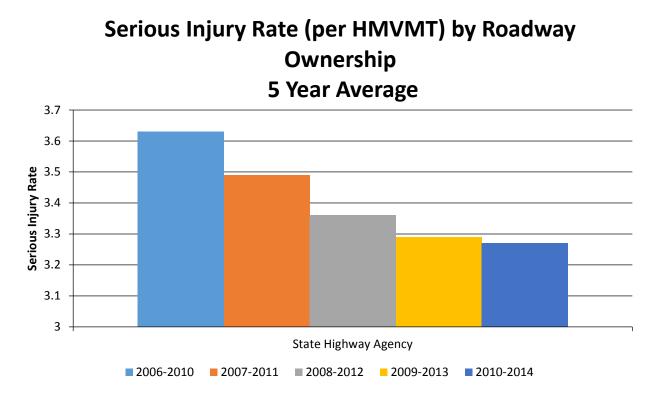




Number of Fatalities by Roadway Ownership 5 Year Average







Enter additional comments here to clarify your response for this question or add supporting information.

Caltrans has not using Functional Classification as stated above from its TSN Database since 2002. It has its own definition of Functional Classification.

Are there any other aspects of the general highway safety trends on which the State would like to elaborate?

Yes

Provide additional discussion related to general highway safety trends.

We input annual collision data for the years requested, and the ORT application generates a graph of 5-yr rolling average.

Safety Performance Targets Safety Performance Targets

Calendar Year 2018 Targets *

Number of Fatalities

3590.8

Describe the basis for established target, including how it supports SHSP goals.

2018 performance target is a "vision" based target that is based on a year-year decrease of 7.69% from 2017 and onward. CA Highway System Only = 1,354 Fatalities*. For example, when CA State Highway System collision trend is decreasing, but all CA roadway types collision trend is increasing then SHSP can address and focus on other challenge areas that are not within the CA State Highway System.

Number of Serious Injuries 12823.4

Describe the basis for established target, including how it supports SHSP goals.

2018 performance target method is a "vision" based target that is based on a year-year decrease of 7.69% from 2017 and onward. CA Highway System Only = 3,521 Serious Injuries*. For example, when CA State Highway System collision trend is decreasing, but all CA roadway types collision trend is increasing then SHSP can address and focus on other challenge areas that are not within the CA State Highway System.

Fatality Rate1.029

Describe the basis for established target, including how it supports SHSP goals.

2018 performance target, Fatality Rate, is "vision" based on all roadway types within CA using a 5-yr rolling average and 100M vehicle miles traveled. CA Highway System Only = 0.754 Fatality Rate*. For example, when CA State Highway System collision trend is decreasing, but all CA roadway types collision trend is increasing then SHSP can address and focus on other challenge areas that are not within the CA State Highway System.

Serious Injury Rate 3.831

Describe the basis for established target, including how it supports SHSP goals.

2018 performance target, Serious Injury Rate, is "vision" based on all roadway types within CA using a 5-yr rolling average and 100M vehicle miles traveled. CA Highway System Only = 3.45 Serious Injury Rate*. For example, when CA State Highway System collision trend is decreasing, but all CA roadway types collision trend is increasing then SHSP can address and focus on other challenge areas that are not within the CA State Highway System.

Total Number of Non-Motorized4271.1Fatalities and Serious Injuries4271.1

Describe the basis for established target, including how it supports SHSP goals.

2018 performance target method is a "vision" based target that is based on a year-year decrease of 7.69% from 2017 and onwards. CA Highway System Only = 550 both Fatalities* and Serious Injuries*. For example, when CA State Highway System collision trend is decreasing, but all CA roadway types collision trend is increasing

then SHSP can address and focus on other challenge areas that are not within the CA State Highway System.

Enter additional comments here to clarify your response for this question or add supporting information.

In order to get to .0 instead of .4 we will have to change a number for one of the five years and then we would no longer match OTS. The .4 is a result of using the identical numbers for the five years that OTS used.

Describe efforts to coordinate with other stakeholders (e.g. MPOs, SHSO) to establish safety performance targets.

The State has had training and a series of workshops with MPOs and other stakeholders to set the safety performance targets for 2018.

Does the State want to report additional optional targets?

No

Enter additional comments here to clarify your response for this question or add supporting information.

Applicability of Special Rules

Does the HRRR special rule apply to the State for this reporting period?

No

Enter additional comments here to clarify your response for this question or add supporting information.

The HRRR special rule does not apply to California for this reporting period, as it has been determined that the 5-year average fatality rate on rural roads in California does not increase from 2007-2011 to 2009-2013.

Provide the number of older driver and pedestrian fatalities and serious injuries for the past seven years.

PERFORMANCE MEASURES	2009	2010	2011	2012	2013	2014	2015
Number of Older Driver and Pedestrian Fatalities	150	156	156	172	185	190	198
Number of Older Driver and Pedestrian Serious Injuries	218	189	184	227	206	223	288



Number of Older Driver and Pedestrian Fatalities and Serious Injuries by Year.

Enter additional comments here to clarify your response for this question or add supporting information.

Evaluation

Program Effectiveness

How does the State measure effectiveness of the HSIP?

Benefit/Cost Ratio

Enter additional comments here to clarify your response for this question or add supporting information.

Based on the measures of effectiveness selected previously, describe the results of the State's program level evaluations.

There are two ways to measure effectiveness such as B/C ratio and Performance Target Values. Safety improvement projects are measured based on performance values (number of collision reduced over the life of the project). For example, determine the number of collisions reduced over the life of the project is an indication of the total number of lives potentially saving over life of the project. Another method is benefit-cost analysis. This method is to measure the effectiveness of the safety improvement project by evaluating the change in number of collisions and crash rate from a 3-yr before and 3-yr after the project completion. Based on B/C ratio, the result are B/C Ratio = 4.25 for 10-yr projects, and B/C Ratio = 8.50 for 20-yr projects that is an indication that the State's program is effective because B/C Ratio is greater than 2.

What other indicators of success does the State use to demonstrate effectiveness and success of the Highway Safety Improvement Program?

More systemic programs # RSAs completed Increased awareness of safety and data-driven process Increased focus on local road safety HSIP Obligations

Enter additional comments here to clarify your response for this question or add supporting information.

Division of Local Assistance increases in obligation for local safety projects, HSIP now programs approximately \$110 Million dollars per year in the 2017 HSIP-FTIP Backup List, which was refreshed last November. It continued efforts of the Local HSIP Advisory committee on effective implementation of the HSIP program, including the SSARP, and other anticipated set-aside sub-programs. It also increased awareness of safety and data-driven process. This awareness has been discussed in four or five Local Advisory Committee meetings in conjunction with the future MIRE requirement, and SHSP collision-reduction targets associated with traffic fatality and serious injuries in any road networks. HSIP program guidelines was updated in June 2017 and will continue to evolve with the oncoming federal/state requirement. Both State and Division of Local Assistance completed a number of Road Safety Audits (RSA).

Are there any significant programmatic changes that have occurred since the last reporting period?

Describe significant program changes that have occurred since the last reporting period.

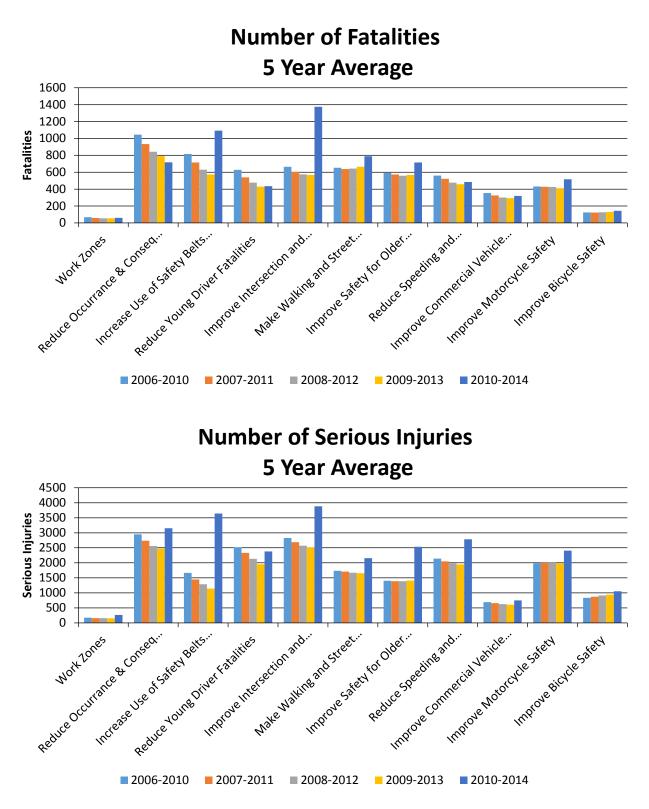
One new monitoring programs of the HSIP sub-program was included. Pedestrian Safety Monitoring Program is now also SHOPP funded and implemented as safety improvement projects.

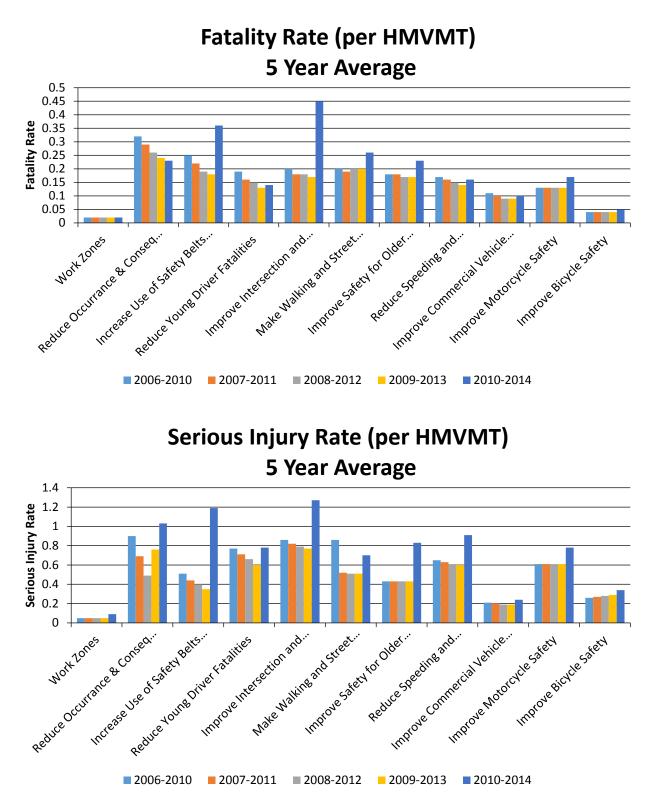
Effectiveness of Groupings or Similar Types of Improvements

Present and describe trends in SHSP emphasis area performance measures.

SHSP Emphasis Area	Targeted 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	Other 2	Other 3
Work Zones	Construction Zone	60	266	0.02	0.09			
Reduce Occurrance & Conseq of Leaving Roadway & Head-On Colli	Head on	717	3,151	0.23	1.03			
Increase Use of Safety Belts and Child Safety Seats	Safety Belts	1,092	3,643	0.36	1.19			
Reduce Young Driver Fatalities	Young Driver	435	2,381	0.14	0.78			
Improve Intersection and Interchange Safety	Intersections	1,374	3,880	0.45	1.27			
Make Walking and Street Crossing Safer	Vehicle/pedestrian	789	2,156	0.26	0.7			
Improve Safety for Older Roadway Users	Older Roadway Users	716	2,536	0.23	0.83			
Reduce Speeding and Aggressive Driving	Speed-related	484	2,783	0.16	0.91			
Improve Commercial Vehicle Safety	Truck-related	320	747	0.1	0.24			
Improve Motorcycle Safety	Motorcycle Safety	517	2,406	0.17	0.78			
Improve Bicycle Safety	Vehicle/bicycle	144	1,053	0.05	0.34			

Year 2014





Enter additional comments here to clarify your response for this question or add supporting information.

For other SHSP emphasis areas such as Emergency Medical Services, Driver Licensing and Competency, and Distracted Driving, we don't have data.

Has the State completed any countermeasure effectiveness evaluations during the reporting period?

No

Enter additional comments here to clarify your response for this question or add supporting information.

Caltrans has not completed any countermeasure effectiveness evaluations during the reporting period. Caltrans seldom conducts countermeasure effectiveness evaluations and typically refers to the CMF Clearinghouse for countermeasure effectiveness.

Provide the following information for previously implemented projects that the State evaluated this reporting period.

LOCATION	FUNCTIONAL CLASS	IMPROVEMENT CATEGORY	IMPROVEMENT TYPE	PDO BEFORE	PDO AFTER	FATALITY BEFORE	FATALITY AFTER	SERIOUS INJURY BEFORE	SERIOUS INJURY AFTER	ALL INJURY BEFORE	ALL INJURY AFTER	TOTAL BEFORE	TOTAL AFTER	EVALUATION RESULTS (BENEFIT/COST RATIO)
12-ORA-241	Urban Principal Arterial - Other Freeways and Expressways	Roadside	Roadside - other			3.00	3.00			74.00	56.00	77.00	59.00	
06-MAD-99	Rural Principal Arterial - Other Freeways and Expressways	Roadside	Barrier- metal			1.00				22.00	8.00	23.00	8.00	
10-MPA-49	Rural Principal Arterial - Other Freeways and Expressways	Intersection geometry	Auxiliary lanes - add left-turn lane								1.00		1.00	
08-SBD-010	Rural Principal Arterial - Other Freeways and Expressways	Roadway	Pavement surface - miscellaneous			5.00	5.00			133.00	101.00	138.00	106.00	
5-SLO-166	Rural Principal Arterial - Other Freeways and Expressways	Roadway	Rumble strips - center			1.00				1.00		2.00		
08-SBD-018	Rural Principal Arterial - Other	Intersection geometry	Intersection geometry - other				1.00			1.00		1.00	1.00	
08-RIV-015	Rural Principal Arterial - Other Freeways and Expressways	Roadside	Barrier - concrete							19.00	12.00	19.00	12.00	
05-SLO-101	Rural Principal Arterial - Interstate	Roadside	Barrier - concrete							6.00	4.00	6.00	4.00	
01-HUM-101	Rural Principal Arterial - Other Freeways and Expressways	Roadway	Pavement surface - high friction surface							1.00		1.00		
02-TRI-299	Rural Principal Arterial - Other Freeways and Expressways	Alignment	Vertical alignment or elevation change							1.00		1.00		
06-KIN-041	Rural Principal Arterial - Other Freeways and Expressways	Intersection geometry	Intersection geometry - other			1.00				3.00	1.00	4.00	1.00	
04-ALA-084	Urban Principal Arterial - Other Freeways and Expressways	Shoulder treatments	Widen shoulder - paved or other			1.00	1.00			10.00	9.00	11.00	10.00	

LOCATION	FUNCTIONAL CLASS	IMPROVEMENT CATEGORY	IMPROVEMENT TYPE	PDO BEFORE	PDO AFTER	FATALITY BEFORE	FATALITY AFTER	SERIOUS INJURY BEFORE	SERIOUS INJURY AFTER	ALL INJURY BEFORE	ALL INJURY AFTER	TOTAL BEFORE	TOTAL AFTER	EVALUATION RESULTS (BENEFIT/COST RATIO)
04-SOL-080	Rural Principal Arterial - Other Freeways and Expressways	Roadside	Barrier- metal			11.00	21.00			630.00	703.00	641.00	724.00	
08-RIV-074	Urban Principal Arterial - Other	Intersection traffic control	Intersection traffic control - other				1.00			2.00	2.00	2.00	3.00	
12-ORA-005	Urban Principal Arterial - Interstate	Intersection traffic control	Intersection traffic control - other							5.00		5.00		
07-LA-134	Urban Principal Arterial - Other Freeways and Expressways	Roadside	Barrier- metal			8.00	9.00			577.00	619.00	585.00	628.00	
08-SBD-015	Urban Principal Arterial - Other Freeways and Expressways	Intersection traffic control	Intersection traffic control - other							2.00		2.00		
12-ORA-039	Urban Principal Arterial - Other Freeways and Expressways	Lighting	Intersection lighting							3.00	4.00	3.00	4.00	
05-SCR-017	Urban Principal Arterial - Other Freeways and Expressways	Roadside	Barrier- metal			1.00				30.00	4.00	31.00	4.00	
05-MON-101	Rural Principal Arterial - Other Freeways and Expressways	Roadside	Barrier - concrete							22.00	32.00	22.00	32.00	
01-LAK-020	Rural Principal Arterial - Other	Intersection traffic control	Modify control - modifications to roundabout								2.00		2.00	
01-DN-HUM-101	Rural Principal Arterial - Other Freeways and Expressways	Roadway	Pavement surface - high friction surface							2.00	1.00	2.00	1.00	
02-TEH-005	Rural Principal Arterial - Other Freeways and Expressways	Roadside	Barrier - concrete							3.00	1.00	3.00	1.00	
08-RIV-SBD-062	Rural Principal Arterial - Other Freeways and Expressways	Roadway delineation	Roadway delineation - other				3.00			22.00	20.00	22.00	23.00	
06-KER-033	Rural Principal Arterial - Other Freeways and Expressways	Roadway	Pavement surface - miscellaneous							9.00	8.00	9.00	8.00	
03-NEV-080	Rural Principal Arterial - Other Freeways and Expressways	Roadside	Barrier - concrete								1.00		1.00	

LOCATION	FUNCTIONAL CLASS	IMPROVEMENT CATEGORY	IMPROVEMENT TYPE	PDO BEFORE	PDO AFTER	FATALITY BEFORE	FATALITY AFTER	SERIOUS INJURY BEFORE	SERIOUS INJURY AFTER	ALL INJURY BEFORE	ALL INJURY AFTER	TOTAL BEFORE	TOTAL AFTER	EVALUATION RESULTS (BENEFIT/COST RATIO)
06-TUL/MAD-099	Rural Principal Arterial - Other Freeways and Expressways	Roadside	Barrier- metal			1.00				6.00	2.00	7.00	2.00	
04-ALA-880	Urban Principal Arterial - Other Freeways and Expressways	Roadway	Pavement surface - miscellaneous								1.00		1.00	
06-FRE-005	Rural Principal Arterial - Other Freeways and Expressways	Roadside	Barrier- metal							5.00	8.00	5.00	8.00	
05-SLO-046	Rural Principal Arterial - Other Freeways and Expressways	Roadway	Rumble strips - center			1.00				6.00	7.00	7.00	7.00	
05-SCR-017	Rural Principal Arterial - Other Freeways and Expressways	Roadside	Barrier- metal								4.00		4.00	
07-LA-090	Rural Principal Arterial - Other Freeways and Expressways	Roadside	Barrier - concrete							7.00	6.00	7.00	6.00	
04-SCL-082	Urban Principal Arterial - Other Freeways and Expressways	Intersection traffic control	Intersection traffic control - other								1.00		1.00	
07-LA-405	Urban Principal Arterial - Other Freeways and Expressways	Roadside	Barrier - concrete							2.00	6.00	2.00	6.00	
12-ORA-005	Urban Principal Arterial - Other Freeways and Expressways	Intersection traffic control	Intersection traffic control - other							21.00	21.00	21.00	21.00	
03-SAC/ED-005	Urban Principal Arterial - Interstate	Roadway	Pavement surface - miscellaneous							38.00	21.00	38.00	21.00	
08-RIV-010	Rural Principal Arterial - Other Freeways and Expressways	Roadside	Barrier - concrete							9.00	8.00	9.00	8.00	
08-RIV-010	Rural Principal Arterial - Other Freeways and Expressways	Roadside	Barrier - other			1.00	2.00			16.00	24.00	17.00	26.00	
10-SJ-005	Rural Principal Arterial - Other Freeways and Expressways	Roadway	Rumble strips - edge or shoulder			9.00	9.00			9.00	17.00	18.00	26.00	
02-LAS-395	Rural Principal Arterial - Other	Roadway	Rumble strips - center			4.00	2.00			45.00	38.00	49.00	40.00	

LOCATION	FUNCTIONAL CLASS	IMPROVEMENT CATEGORY	IMPROVEMENT TYPE	PDO BEFORE	PDO AFTER	FATALITY BEFORE	FATALITY AFTER	SERIOUS INJURY BEFORE	SERIOUS INJURY AFTER	ALL INJURY BEFORE	ALL INJURY AFTER	TOTAL BEFORE	TOTAL AFTER	EVALUATION RESULTS (BENEFIT/COST RATIO)
112-ORA-055	Urban Principal Arterial - Interstate	Roadway	Pavement surface - miscellaneous							2.00	2.00	2.00	2.00	
07-LA-014	Urban Principal Arterial - Other Freeways and Expressways	Roadside	Barrier- metal			4.00				93.00	106.00	97.00	106.00	

Enter additional comments here to clarify your response for this question or add supporting information.

These projects were completed on state highway system. Benefit/Cost analysis was done based on all of these completed projects rather than as an individually project. For the life of the project of 10-year, the B/C = 4.25 with about 291.5 collisions reduce per year. For the life of the project of 20-year, the B/C = 8.50 with about 145.75 collisions reduce per year.

Note: A safety improvement project at a location reduces a collision pattern depending on the countermeasure, but sometime it may also increase another type of collision pattern.

For example at the location 04-SOL-080, Rural Principal Arterial - Other Freeways and Expressways, Roadside, the countermeasure was to install a barrier-metal (metal beam guardrail). Overall collisions of 3 years before were 11 fatal collisions; however, after 3 years of project completion, overall collisions were 21 fatal collisions. The cross median head-on collision pattern was reduced, but other types of collision patterns increased. Therefore; this location may need another investigation to reduce other types of collision patterns.

Are there any other aspects of the overall HSIP effectiveness on which the State would like to elaborate?

Yes

Describe any other aspects of HSIP effectiveness on which the State would like to elaborate.

Sub-programs such as multi-lane cross median collision monitoring program, 2&3-lane cross center-line collision monitoring program, and wrong way collision monitoring program have shown that from 2009 to 2014, the total number of collisions have been decreasing.

2017 California Highway Safety Improvement Program **Compliance Assessment**

What date was the State's current SHSP approved by the Governor or designated State representative?

09/01/2015

What are the years being covered by the current SHSP?

From: 2015 To: 2019

When does the State anticipate completing it's next SHSP update?

2020

Enter additional comments here to clarify your response for this question or add supporting information.

Provide the current status (percent complete) of MIRE fundamental data elements collection efforts using the table below.

	NON LOCA ROADS - S		NON LOC ROADS - INT	AL PAVED FERSECTION		AL PAVED - RAMPS	LOCAL PAV	/ED ROADS	UNPAVED ROADS	
MIRE NAME (MIRE NO.)	STATE	NON-STATE	STATE	NON-STATE	STATE	NON-STATE	STATE	NON-STATE	STATE	NON-STATE
ROADWAY SEGMENT				2	•	÷	-			
Segment Identifier (12)	23.6	76.4					0	100	0	100
Route Number (8)	23.6	76.4								
Route/Street Name (9)	23.6	76.4								
Federal Aid/Route Type (21)	23.6	76.4								
Rural/Urban Designation (20)	23.6	76.4					0	100		
Surface Type (23)	23.6	76.4					0	100		
Begin Point Segment Descriptor (10)	23.6	76.4					0	100	0	100
End Point Segment Descriptor (11)	23.6	76.4					0	100	0	100
Segment Length (13)	23.6	76.4								
Direction of Inventory (18)	23.6	76.4								
Functional Class (19)	23.6	76.4					0	100	0	100
Median Type (54)	23.6	76.4								

	NON LOC/ ROADS - S	AL PAVED SEGMENT	NON LOC ROADS - INT	AL PAVED FERSECTION	NON LOCA ROADS	AL PAVED - RAMPS	LOCAL PAV	ED ROADS	UNPAVE	DROADS
MIRE NAME (MIRE NO.)	STATE	NON-STATE	STATE	NON-STATE	STATE	NON-STATE	STATE	NON-STATE	STATE	NON-STATE
Access Control (22)	23.6	76.4								
One/Two Way Operations (91)	23.6	76.4								
Number of Through Lanes (31)	23.6	76.4					0	100		
Average Annual Daily Traffic (79)	23.6	76.4					0	100		
AADT Year (80)	23.6	76.4								
Type of Governmental Ownership (4)	23.6	76.4					0	100	0	100
INTERSECTION										
Unique Junction Identifier (120)			0	0						
Location Identifier for Road 1 Crossing Point (122)			0	0						
Location Identifier for Road 2 Crossing Point (123)			0	0						
Intersection/Junction Geometry (126)			0	0						
Intersection/Junction Traffic Control (131)			0	0						
AADT for Each Intersecting Road (79)			0	0						
AADT Year (80)			0	0						
Unique Approach Identifier (139)			0	0						
INTERCHANGE/RAMP										
Unique Interchange Identifier (178)					100	0				
Location Identifier for Roadway at Beginning of Ramp Terminal (197)					100	0				
Location Identifier for Roadway at Ending Ramp Terminal (201)					100	0				
Ramp Length (187)					100	0				
Roadway Type at Beginning of Ramp Terminal (195)					100	0				

		AL PAVED SEGMENT	NON LOCAL PAVED ROADS - INTERSECTION			AL PAVED - RAMPS	LOCAL PA	VED ROADS	UNPAVED ROADS	
MIRE NAME (MIRE NO.)	STATE	NON-STATE	STATE	NON-STATE	STATE	NON-STATE	STATE	NON-STATE	STATE	NON-STATE
Roadway Type at End Ramp Terminal (199)					100	0				
Interchange Type (182)					100	0				
Ramp AADT (191)					100	0				
Year of Ramp AADT (192)					100	0				
Functional Class (19)					100	0				
Type of Governmental Ownership (4)					100	0				
Totals (Average Percent Complete):	23.60	76.40	0.00	0.00	100.00	0.00	0.00	100.00	0.00	100.00

Enter additional comments here to clarify your response for this question or add supporting information.

For Non Local Paved Roads - Segment, State is completed 23.6% and Non-State is completed 76.4%. For other Roadway Types such as Intersection, Ramp, Local Paved Roads and Unpaved Roads, State is either completed 100% and Non-State is completed 0% or State is completed 0% and Non-State is completed 100%.

Describe actions the State will take moving forward to meet the requirement to have complete access to the MIRE fundamental data elements on all public roads by September 30, 2026.

Executive (TRCC) Traffic Records Coordinating Committee adopted a plan on how to collect MIRE fundamental data elements on all public roads. A team was formed on how to implement the plan and had an initial kick-off meeting on August 29, 2017.

Provide the suspected serious injury identifier, definition and attributes used by the State for both the crash database using the table below. Please also indicate whether or not these elements are compliant with the MMUCC 4th edition criteria for data element P5. Injury Status, suspected serious injury.

CRITERIA	SUSPECTED SERIOUS INJURY IDENTIFIER(NAME)	MMUCC 4TH EDITION COMPLIANT *	SUSPECTED SERIOUS INJURY DEFINITION	MMUCC 4TH EDITION COMPLIANT *	SUSPECTED SERIOUS INJURY ATTRIBUTES(DESCRIPTORS)	MMUCC 4TH EDITION COMPLIANT *
Crash Report Form	CHP 555 Collision Report Form	Yes	N/A	Yes	N/A	Yes
Crash Report Form Instruction Manual	TASAS Coding Manual	Yes	(TASAS) Traffic Accident Surveillance and Analysis System Coding Manual Definition		(TASAS) Traffic Accident Surveillance and Analysis System Coding Manual Definition	Yes
Crash Database	Statewide Integrated Traffic Record System	Yes	N/A	Yes	N/A	Yes
Crash Database Data Dictionary	TSAR Reference Card	Yes	TSAR Reference Card	Yes	TSAR Reference Card	Yes

Enter additional comments here to clarify your response for this question or add supporting information.

Currently, States use different definitions and coding conventions to report serious injuries in their motor vehicle crash databases. However, by April 14, 2019, all States will be required to use the definition for "Suspected Serious Injury (A)" verbatim from the Model Minimum Uniform Crash Criteria (MMUCC), 4th Edition. Source: http://www.dot.ca.gov/trafficops/hsip/docs/ca-hsip-2017.pdf

Did the State conduct an HSIP program assessment during the reporting period?

Yes

Describe the purpose and outcomes of the State's HSIP program assessment.

Assessment was done by reviewing and updating the HSIP Guidelines. Result of HSIP assessment was to update the 2014 HSIP Guidelines to 2017 HSIP Guidelines including contents to better explain eligible criteria, options, limitations, countermeasures, and other recommendations.

Optional Attachments

Program Structure:

2017 STATE HSIP GUIDELINES FINAL.pdf

Project Implementation:

LOCAL HSIP_ORT_Data_2017_Report.xlsx Caltrans-Approved-Projects-Fiscal-16-17-HSIP-Report.xlsx

Safety Performance:

Evaluation:

Compliance Assessment:

Glossary

5 year rolling average	means the average of five individuals, 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.