



CONNECTICUT

# HIGHWAY SAFETY IMPROVEMENT PROGRAM 2018 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 reporting period for 2018 is from October 1, 2016 to September 30, 2017.

Connecticut's (5 year rolling average) fatalities and fatal crash rates have increased in 2016. Both (5 year rolling average) serious injuries and the serious injury crash rate have seen little change in 2016.

Connecticut uses HSIP resources to incorporate safety improvements across a broad range of maintenance, safety and non-infrastructure projects. Innovative methodologies developed and used by CTDOT will continue to identify more locations, on a statewide scale, with the greatest potential for crash reduction. Applications of new Highway Safety Manual concepts and systemic approaches are also being integrated into the HSIP program. The SHSP implementation plan will target goals and devise strategies in each emphasis area to see where improvements can be made in order to support the vision of moving towards zero deaths. In the next fiscal year, CTDOT hopes to solicit a greater number of off system (non-state highway) locations with high potential for crash reduction with the help of local agencies partners and stakeholders.

## 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.**

CTDOT's Safety Engineering Section, which is located within the Division of Traffic Engineering, Bureau of Engineering and Construction utilizes both the spot improvement approach and the systemic approach to identify, select, implement HSIP projects. The spot improvement approach, known as the Suggested List of Surveillance Study Sites (SLOSSS), results in safety investments at specific locations while the systemic approach leads to widespread implementation of treatments to reduce the potential for fatalities and/or serious injuries, whether or not crashes have occurred at any given site. Since many of CT's fatal and serious injury crashes are spread out across all public roads, the systemic approach provides an alternate method to identify and implement low-cost safety countermeasures addressing specific risk factors across the entire roadway network. As data becomes available, spot improvement projects are evaluated to determine their effectiveness.

**Where is HSIP staff located within the State DOT?**

Engineering

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

The HSIP staff is located within the Division of Traffic Engineering's Safety Engineering Section.

**How are HSIP funds allocated in a State?**

SHSP Emphasis Area Data

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

The HSIP funds are administered and allocated by the central office at CTDOT.

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

## 2018 Connecticut Highway Safety Improvement Program

Local Roads are addressed by the Local Road Accident Reduction Program (LRARP). The LRARP provides federal funding for safety-related improvements on the non-state maintained roadways, to address hazardous elements identified at specific locations and along roadway sections. Local road crash data is available at the crash repository at the UCONN. Since traffic volume data for the majority of local roads is not available, an analytical analysis of crashes on non-state maintained roadways to determine project selection has not been possible. Therefore, the Department annually solicits the nine Council of Governments (COGs) in CT for recommended improvements on behalf of their member towns, to address identified hazardous elements. These improvements may address traffic signal enhancements, minor geometric improvements, roadside obstacles, sight line conditions, hazards to pedestrians and poor or unmarked roadways. In the future when more local data is available, the methodology for selection of improvements under the LRARP will be reevaluated. In recent years, the Department has expanded the LRARP to consider systemic improvement projects designed to address run-off-road fixed-object collisions on local roads. The project costs is capped at \$500,000 per location and the local agencies are typically responsible for the non-federal share as well as 100% of the costs for preliminary engineering and rights-of-way. All locations are reviewed and investigated by the Division of Traffic Engineering's Safety Engineering Section and the Division of Highway Design.

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

Traffic Engineering/Safety  
Design  
Maintenance  
Operations

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

**Describe coordination with internal partners.**

The Operations' Section within the Department's Division of Traffic Engineering reviews specific locations on the state highway system for possible highway safety improvements. The study locations typically originate from internal databases, such Suggested List of Study Surveillance Sites (SLOSSS), or via appointed and elected officials, town officials, or the public. Depending on the cost and scope of the countermeasure, the CTDOT's Office of Maintenance may be requested to implement low-cost improvements such as traffic signal timing changes, installation of signs and pavement markings. In those situations where the scope of work is beyond the resources of maintenance, the Operations' Section recommends a project for inclusion in the CTDOT's capital improvement plan. These safety projects are further developed and plans, specifications, and estimates are undertaken by the Department's Division of Highway Design.

**Identify which external partners are involved with HSIP planning.**

Regional Planning Organizations (e.g. MPOs, RPOs, COGs)  
Academia/University  
Other-Safety Circuit Rider Program

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

## 2018 Connecticut Highway Safety Improvement Program

The Transportation Safety Research Center at UCONN is developing new tools for CTDOT which will assist with HSIP planning activities.

### **Describe coordination with external partners.**

The Division of Traffic Engineering's Safety Section annually solicits the nine Council of Governments (COGs) in CT for recommended improvements on behalf of their member towns, to address identified hazardous elements on local roads. Due to limited HSIP funding, each COG must prioritize the applications received and forward only two potential projects to CTDOT for consideration. CTDOT evaluates all the projects received and notifies the COG if the project is approved for funding. The COG's inform the member towns accordingly.

The Department's Safety Section works in partnership with the CT's Safety Circuit Rider Program (CT SCR) which provides safety-related information, training, and technical assistance to local agencies. Some of the initiatives include coordination of Road Safety Assessments (RSA's), collection and analysis of traffic volume data, identification of low cost safety improvements, assistance in the development of Local Road Safety Plans, development of a Connecticut Toolbox of Safety Resources, development of a series of Roadway Safety Briefs, and delivery of Local Road Safety Training. The CT SCR program also provides assistance to local agencies in understanding the capabilities of the new CT Crash Data Repository at UCONN and provides accurate information to local practitioners to make informed roadway safety decisions.

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

Yes

### **Describe HSIP program administration practices that have changed since the last reporting period.**

The Transportation Safety Research Center at UCONN has assumed the role of transportation safety planning for the agency which was formerly the responsibility of the Department's Bureau of Policy and Planning. UCONN is in the process of developing a new safety management system for the Department. The beta version of the network screening and diagnostic tools are currently still being tested and refined.

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

Yes

### **Describe other aspects of HSIP Administration on which the State would like to elaborate.**

Projects can qualify for the Department's HSIP funds and placement on the HSIP Safety Project Plan when they are initiated from the following sources:

- Suggested List of Surveillance Study Sites (SLOSSS)
- Local Road Accident Reduction Program (LRARP)

2018 Connecticut Highway Safety Improvement Program

- Railway-Highway Grade Crossing Program (RHGCP)
- Projects supporting SHSP Emphasis Areas
- Section 402/405 Safety Programs (NHTSA)
- Section 154 (Open Container Requirements)
- High Risk Rural Roads

**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:

[CT's HSIP safety program.pdf](#)

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

Horizontal Curve

Roadway Departure

Local Safety

Pedestrian Safety

Other-spot improvement (SLOSSS)

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

**Program:** Horizontal Curve

**Date of Program Methodology:** 7/1/2015

**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]**

Competes with all projects

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

**Crashes**

**Exposure**

**Roadway**

All crashes

Traffic

Horizontal curvature  
Functional classification  
Roadside features

## 2018 Connecticut Highway Safety Improvement Program

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

Probability of specific crash types

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

Yes

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

No

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

Horizontal curves projects on local roads are based on risk factors.

**How are projects under this program advanced for implementation?**

selection committee

**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**

Available funding : 100

**Program:** Local Safety

**Date of Program Methodology:** 7/1/2008

**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]**

Competes with all projects

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

**Crashes**

**Exposure**

**Roadway**

Other-As supplied by the applicant

Functional classification

## 2018 Connecticut Highway Safety Improvement Program

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

Crash frequency

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

Yes

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

No

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

Submittals by the regional planning organizations. The submittals that meet the program's criteria are funded.

**How are projects under this program advanced for implementation?**

Other-Submittals are checked for accuracy and if the improvement yields a b/c ratio greater than 1.0, the submittals are forwarded to financial to obtain funding

**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**

Ranking based on B/C : 50

Available funding : 50

**Program:** Pedestrian Safety

**Date of Program Methodology:** 9/1/2014

**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]**

Competes with all projects

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

Crashes

Exposure

Roadway

## 2018 Connecticut Highway Safety Improvement Program

All crashes

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

Crash frequency

Probability of specific crash types

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

Yes

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

Yes

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

Submittals by the regional planning organizations. The submittals that meet the program's criteria are funded.

**How are projects under this program advanced for implementation?**

selection committee

**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**

Available funding : 100

**Program:** Roadway Departure

**Date of Program Methodology:** 7/1/2015

**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]**

Competes with all projects

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

2018 Connecticut Highway Safety Improvement Program

**Crashes**

**Exposure**

**Roadway**

All crashes

Traffic

Horizontal curvature

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

Probability of specific crash types

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

Yes

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

Yes

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

Submittals by the regional planning organizations. The submittals that meet the program's criteria are funded.

**How are projects under this program advanced for implementation?**

selection committee

**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**

Available funding : 100

**Program:**

Other-spot improvement (SLOSSS)

**Date of Program Methodology:**

1/1/1967

**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]**

Competes with all projects

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

All crashes

Volume

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

Critical 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?**

Yes

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

Submittals by the regional planning organizations. The submittals that meet the program's criteria are funded.

**How are projects under this program advanced for implementation?**

selection committee

**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**

Incremental B/C : 100

**What percentage of HSIP funds address systemic improvements?**

27

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

Rumble Strips

Upgrade Guard Rails

Horizontal curve signs

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

The percentage reported in last year's report should have been 20% not 78%.

**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.**

**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?**

Yes

**Please describe how the State uses the HSM to support HSIP efforts.**

CTDOT, in partnership with the University of Connecticut, is currently updating the agencies safety analysis tools and methods that match the six-step safety management process as described in the HSM. For example, the CT's network screening module, which is used to identify and rank sites with a higher than expected crash frequency is being updated to allow screening for specific roadway types, crash types, or the presence of a specific traffic control device. Under the diagnosis module, users will soon be able to create collision diagrams using advanced GIS mapping capabilities. These diagrams are critical to the review process and help lead to the identification of contributing factors and crash patterns. Condition diagrams will also be built to provide a visual site overview and can be used in coordination with the collision diagram. CTDOT is also using IHSDM in the safety planning process to evaluate and compare design alternatives.

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

No

**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.**

Federal Fiscal Year

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

October 1, 2016 to September 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)                           | \$27,540,690 | \$29,760,226 | 108.06%                |
| HRRR Special Rule (23 U.S.C. 148(g)(1))        | \$1,895,035  | \$1,895,035  | 100%                   |
| Penalty Funds (23 U.S.C. 154)                  | \$6,894,086  | \$6,894,086  | 100%                   |
| Penalty Funds (23 U.S.C. 164)                  | \$0          | \$0          | 0%                     |
| RHCP (for HSIP purposes) (23 U.S.C. 130(e)(2)) | \$0          | \$0          | 0%                     |
| Other Federal-aid Funds (i.e. STBG, NHPP)      | \$0          | \$0          | 0%                     |
| State and Local Funds                          | \$0          | \$0          | 0%                     |
| Totals                                         | \$36,329,811 | \$38,549,347 | 106.11%                |

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

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

19%

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

19%

**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?**

29%

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

2018 Connecticut Highway Safety Improvement Program

29%

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

**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.**

None.

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

No

2018 Connecticut Highway Safety Improvement Program

General Listing of Projects

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

|              |                                   |                                                           |         |               |                       |                        |                               |                                        |        |       |                                 |                           | RELATIONSHIP 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              |
| 0138-0212CN  | Intersection geometry             | Intersection geometrics - miscellaneous/other/unspecified | 1       | Intersections | \$438369              | \$438369               | Penalty Funds (23 U.S.C. 154) | Urban Principal Arterial (UPA) - Other | 0      |       | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0170-3449PL  | Non-infrastructure                | Data/traffic records                                      | 1       | records       | \$180000              | \$180000               | Penalty Funds (23 U.S.C. 154) | other                                  | 0      |       | other                           | other                     | Data                 | records               |
| 0172-0456CN  | Roadway signs and traffic control | Roadway signs (including post) - new or updated           | 642     | Locations     | \$516950              | \$516950               | Penalty Funds (23 U.S.C. 154) | Rural Minor Arterial                   | 0      |       | Town or Township Highway Agency | Systemic                  | Roadway Departure    | keep vehicles on road |
| 0170-3448PL  | Non-infrastructure                | Data/traffic records                                      | 1       | records       | \$380000              | \$380000               | Penalty Funds (23 U.S.C. 154) | other                                  | 0      |       | other                           | other                     | Data                 | records               |
| 0093-0213PL  | Non-infrastructure                | Transportation safety planning                            | 1       | plan          | \$1540000             | \$1540000              | Penalty Funds (23 U.S.C. 154) | other                                  | 0      |       | other                           | other                     | Data                 | records               |
| 0093-0214PL  | Non-infrastructure                | Transportation safety planning                            | 1       | plan          | \$743000              | \$743000               | Penalty Funds (23 U.S.C. 154) | other                                  | 0      |       | other                           | other                     | Data                 | records               |
| 0138-0212CN  | Intersection geometry             | Intersection geometrics - miscellaneous/other/unspecified | 1       | Intersections | \$1093767             | \$1093767              | Penalty Funds (23 U.S.C. 154) | Urban Principal Arterial (UPA) - Other | 22,750 | 30    | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0170-3360PL  | Non-infrastructure                | Transportation safety planning                            | 1       | plan          | \$1801800             | \$2002000              | Penalty Funds (23 U.S.C. 154) | varies                                 | 0      |       | other                           | other                     | Data                 | records               |
| 0172-0438PE  | Pedestrians and bicyclists        | Miscellaneous pedestrians and bicyclists                  | 1040    | Locations     | \$86000               | \$86000                | HSIP (23 U.S.C. 148)          | varies                                 | 0      |       | Town or Township Highway Agency | Systemic                  | Pedestrians          | reduce conflicts      |
| 0170-3420PL  | Non-infrastructure                | Transportation safety planning                            | 2       | plan          | \$360000              | \$400000               | HSIP (23 U.S.C. 148)          | varies                                 | 0      |       | State Highway Agency            | other                     | Data                 | records               |
| 0173-0442RW  | Roadside                          | Barrier- metal                                            | 36.39   | Miles         | \$50000               | \$50000                | HSIP (23 U.S.C. 148)          | Rural Major Collector                  | 0      |       | State Highway Agency            | Spot                      | Roadway Departure    | keep vehicles on road |
| 0173-0481PE  | Roadway                           | Rumble strips - center                                    | 0       | Miles         | \$30000               | \$30000                | HSIP (23 U.S.C. 148)          | varies                                 | 0      |       | State Highway Agency            | Systemic                  | Roadway Departure    | keep vehicles on road |
| 0171-0426PE  | Roadway                           | Rumble strips - center                                    | 0       | Miles         | \$30000               | \$30000                | HSIP (23 U.S.C. 148)          | varies                                 | 0      |       | State Highway Agency            | Systemic                  | Roadway Departure    | keep vehicles on road |
| 0174-0415PE  | Roadway                           | Rumble strips - center                                    | 34.31   | Miles         | \$30000               | \$30000                | HSIP (23 U.S.C. 148)          | varies                                 | 0      |       | State Highway Agency            | Systemic                  | Roadway Departure    | keep vehicles on road |
| 0172-0463PE  | Roadway                           | Rumble strips - center                                    | 0       | Miles         | \$30000               | \$30000                | HSIP (23 U.S.C. 148)          | varies                                 | 0      |       | State Highway Agency            | Systemic                  | Roadway Departure    | keep vehicles on road |
| 0063-0696CN  | Intersection traffic control      | Intersection traffic control - other                      | 1       | Intersections | \$1461690             | \$1624100              | HSIP (23 U.S.C. 148)          | Urban Principal Arterial (UPA) - Other | 26,250 | 30    | Town or Township Highway Agency | Spot                      | Intersections        | reduce conflicts      |
| 0173-0469CN+ | Roadway signs and traffic control | Sign sheeting - upgrade or replacement                    | 195     | Locations     | \$60938               | \$60938                | HSIP (23 U.S.C. 148)          | varies                                 | 0      |       | Town or Township Highway Agency | Systemic                  | Roadway Departure    | keep vehicles on road |

2018 Connecticut Highway Safety Improvement Program

|              |                                   |                                                           |         |               |                       |                        |                      |                                             |        |       |                                 |                           | RELATIONSHIP 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              |
| 0102-0354CN+ | Intersection geometry             | Auxiliary lanes - add left-turn lane                      | 1       | Locations     | \$455616              | \$506240               | HSIP (23 U.S.C. 148) | Urban Principal Arterial (UPA) - Other      | 0      |       | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0173-0469CN+ | Roadway signs and traffic control | Sign sheeting - upgrade or replacement                    | 195     | Locations     | \$2681                | \$8043                 | HSIP (23 U.S.C. 148) | varies                                      | 0      |       | Town or Township Highway Agency | Systemic                  | Roadway Departure    | keep vehicles on road |
| 0034-0345RW+ | Roadway                           | Roadway - other                                           | 1       | Locations     | \$110700              | \$123000               | HSIP (23 U.S.C. 148) | Urban Principal Arterial (UPA) - Other      | 0      |       | State Highway Agency            | Spot                      | Intersections        | keep vehicles on road |
| 0171-0396CN  | Pedestrians and bicyclists        | Miscellaneous pedestrians and bicyclists                  | 660     | Locations     | \$369440              | \$369440               | HSIP (23 U.S.C. 148) | varies                                      | 0      |       | State Highway Agency            | Systemic                  | Pedestrians          | reduce conflicts      |
| 0017-0182CN  | Roadway                           | Roadway widening - add lane(s) along segment              | 1.42    | Miles         | \$5000000             | \$5000000              | HSIP (23 U.S.C. 148) | Urban Principal Arterial (UPA) - Interstate | 26,800 | 40    | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0170-3432PL  | Non-infrastructure                | Transportation safety planning                            | 1       | plan          | \$450000              | \$500000               | HSIP (23 U.S.C. 148) | varies                                      | 0      |       | State Highway Agency            | other                     | Data                 | records               |
| 0173-0485PE  | Roadway signs and traffic control | Roadway signs (including post) - new or updated           | 750     | Locations     | \$1044000             | \$1044000              | HSIP (23 U.S.C. 148) | varies                                      | 0      |       | State Highway Agency            | Systemic                  | Roadway Departure    | keep vehicles on road |
| 0174-0399PE  | Intersection traffic control      | Modify traffic signal - modernization/replacement         | 2       | Intersections | \$45000               | \$45000                | HSIP (23 U.S.C. 148) | varies                                      | 0      |       | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0174-0399RW  | Intersection traffic control      | Modify traffic signal - modernization/replacement         | 2       | Intersections | \$50000               | \$50000                | HSIP (23 U.S.C. 148) | varies                                      | 0      |       | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0174-0417PE  | Roadway signs and traffic control | Sign sheeting - upgrade or replacement                    | 1500    | Locations     | \$1950000             | \$1950000              | HSIP (23 U.S.C. 148) | varies                                      | 0      |       | Town or Township Highway Agency | Systemic                  | Roadway Departure    | keep vehicles on road |
| 0170-3350CN  | Roadway                           | Rumble strips - center                                    | 18      | Miles         | \$178500              | \$178500               | HSIP (23 U.S.C. 148) | varies                                      | 0      |       | State Highway Agency            | Systemic                  | Roadway Departure    | keep vehicles on road |
| 0172-0459CN  | Roadway                           | Rumble strips - center                                    | 67      | Miles         | \$389640              | \$389640               | HSIP (23 U.S.C. 148) | varies                                      | 0      |       | State Highway Agency            | Systemic                  | Roadway Departure    | keep vehicles on road |
| 0173-0477CN  | Roadway                           | Rumble strips - center                                    | 27.41   | Miles         | \$338820              | \$338820               | HSIP (23 U.S.C. 148) | varies                                      | 0      |       | State Highway Agency            | Systemic                  | Roadway Departure    | keep vehicles on road |
| 0174-0412CN  | Roadway                           | Rumble strips - center                                    | 50.96   | Miles         | \$385400              | \$385400               | HSIP (23 U.S.C. 148) | varies                                      | 0      |       | State Highway Agency            | Systemic                  | Roadway Departure    | keep vehicles on road |
| 0171-0409PE  | Roadway signs and traffic control | Roadway signs (including post) - new or updated           | 246     | Locations     | \$80000               | \$80000                | HSIP (23 U.S.C. 148) | varies                                      | 0      |       | Town or Township Highway Agency | Systemic                  | Roadway Departure    | keep vehicles on road |
| 0172-0438CN  | Pedestrians and bicyclists        | Miscellaneous pedestrians and bicyclists                  | 1040    | Locations     | \$665300              | \$665300               | HSIP (23 U.S.C. 148) | varies                                      | 0      |       | State Highway Agency            | Systemic                  | Pedestrians          | reduce conflicts      |
| 0172-0451CN  | Roadway signs and traffic control | Sign sheeting - upgrade or replacement                    | 411     | Locations     | \$962355              | \$962355               | HSIP (23 U.S.C. 148) | varies                                      | 0      |       | Town or Township Highway Agency | Systemic                  | Roadway Departure    | keep vehicles on road |
| 0034-0305PE+ | Intersection geometry             | Intersection geometrics - miscellaneous/other/unspecified | 1       | Intersections | \$135000              | \$150000               | HSIP (23 U.S.C. 148) | Urban Minor Arterial                        | 17,450 | 35    | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |

2018 Connecticut Highway Safety Improvement Program

|              |                              |                                                                     |         |               |                       |                        |                      |                                        |        |       |                                 |                           | RELATIONSHIP 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              |
| 0171-0434PE  | Intersection traffic control | Intersection traffic control - other                                | 5       | Intersections | \$206000              | \$206000               | HSIP (23 U.S.C. 148) | varies                                 | 0      |       | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0174-0419PE  | Intersection traffic control | Modify traffic signal - miscellaneous/other/unspecified             | 1       | Intersections | \$41000               | \$41000                | HSIP (23 U.S.C. 148) | Urban Minor Arterial                   | 20,200 | 25    | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0079-0238CN  | Intersection geometry        | Intersection geometrics - realignment to align offset cross streets | 1       | Intersections | \$513990              | \$571100               | HSIP (23 U.S.C. 148) | Urban Minor Arterial                   | 0      |       | Town or Township Highway Agency | Spot                      | Intersections        | reduce conflicts      |
| 0084-0108PE+ | Intersection traffic control | Modify control - two-way stop to roundabout                         | 1       | Intersections | \$30000               | \$30000                | HSIP (23 U.S.C. 148) | Urban Minor Arterial                   | 11,750 | 40    | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0173-0487PE  | Intersection traffic control | Intersection traffic control - other                                | 2       | Intersections | \$83000               | \$83000                | HSIP (23 U.S.C. 148) | varies                                 | 0      |       | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0172-0443RW  | Intersection traffic control | Modify traffic signal - modernization/replacement                   | 7       | Intersections | \$65000               | \$65000                | HSIP (23 U.S.C. 148) | varies                                 | 0      |       | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0172-0443PE  | Intersection traffic control | Modify traffic signal - modernization/replacement                   | 7       | Intersections | \$70000               | \$70000                | HSIP (23 U.S.C. 148) | varies                                 | 0      |       | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0173-0460PE  | Intersection traffic control | Intersection traffic control - other                                | 1       | Intersections | \$22500               | \$22500                | HSIP (23 U.S.C. 148) | Urban Minor Arterial                   | 19,300 | 30    | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0170-3306CN+ | Intersection traffic control | Systemic improvements - stop-controlled                             | 109     | Intersections | \$89582               | \$89582                | HSIP (23 U.S.C. 148) | varies                                 | 0      |       | State Highway Agency            | Systemic                  | Intersections        | reduce conflicts      |
| 0106-0126RW  | Intersection traffic control | Intersection traffic control - other                                | 1       | Intersections | \$45000               | \$50000                | HSIP (23 U.S.C. 148) | Urban Principal Arterial (UPA) - Other | 35,500 | 45    | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0106-0126PE  | Intersection traffic control | Intersection traffic control - other                                | 1       | Intersections | \$225000              | \$250000               | HSIP (23 U.S.C. 148) | Urban Principal Arterial (UPA) - Other | 35,500 | 45    | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0170-3453PL  | Non-infrastructure           | Transportation safety planning                                      |         | plan          | \$450000              | \$500000               | HSIP (23 U.S.C. 148) | varies                                 | 0      |       | Town or Township Highway Agency | other                     | other                | other                 |
| 0172-0402CN+ | Intersection traffic control | Intersection traffic control - other                                | 3       | Intersections | \$88471               | \$88471                | HSIP (23 U.S.C. 148) | Urban Minor Arterial                   | 0      |       | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0009-0098CN+ | Alignment                    | Horizontal and vertical alignment                                   | 1       | Intersections | \$146700              | \$163000               | HSIP (23 U.S.C. 148) | Rural Major Collector                  | 6,400  | 25    | Town or Township Highway Agency | Spot                      | Intersections        | reduce conflicts      |
| 0138-0211CN  | Intersection geometry        | Intersection geometrics - miscellaneous/other/unspecified           | 1       | Intersections | \$438970              | \$438970               | HSIP (23 U.S.C. 148) | Urban Principal Arterial (UPA) - Other | 21,200 | 30    | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0138-0212CN  | Intersection geometry        | Intersection geometrics - miscellaneous/other/unspecified           | 1       | Intersections | \$367944              | \$367944               | HSIP (23 U.S.C. 148) | Urban Principal Arterial (UPA) - Other | 22,750 | 30    | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0170-3455OTH | Non-infrastructure           | Non-infrastructure - other                                          |         | safety patrol | \$2673000             | \$2970000              | HSIP (23 U.S.C. 148) | varies                                 | 0      |       | State Highway Agency            | Systemic                  | safety patrol        | other                 |
| 0174-0415CN  | Roadway                      | Rumble strips - center                                              | 34.31   | Miles         | \$489860              | \$489860               | HSIP (23 U.S.C. 148) | varies                                 | 0      |       | State Highway Agency            | Systemic                  | Roadway Departure    | keep vehicles on road |

2018 Connecticut Highway Safety Improvement Program

|              |                                   |                                                           |         |               |                       |                        |                                         |                                        |        |       |                                 |                           | RELATIONSHIP 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              |
| 0170-3455OTH | Non-infrastructure                | Non-infrastructure - other                                |         | safety patrol | \$1410300             | \$1567000              | HSIP (23 U.S.C. 148)                    | varies                                 | 0      |       | State Highway Agency            | Systemic                  | safety patrol        | other                 |
| 0171-0401PE  | Intersection traffic control      | Intersection traffic control - other                      | 1       | Intersections | \$22500               | \$22500                | HSIP (23 U.S.C. 148)                    | Urban Major Collector                  | 18,600 | 35    | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0171-0401RW  | Intersection traffic control      | Intersection traffic control - other                      | 1       | Intersections | \$25000               | \$25000                | HSIP (23 U.S.C. 148)                    | Urban Major Collector                  | 18,600 | 35    | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0138-0211CN+ | Intersection geometry             | Intersection geometrics - miscellaneous/other/unspecified | 1       | Intersections | \$191631              | \$191631               | HSIP (23 U.S.C. 148)                    | Urban Principal Arterial (UPA) - Other | 21,200 | 30    | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0138-0212CN+ | Intersection geometry             | Intersection geometrics - miscellaneous/other/unspecified | 1       | Intersections | \$17457               | \$17457                | HSIP (23 U.S.C. 148)                    | Urban Principal Arterial (UPA) - Other | 22,750 | 30    | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0174-0391CN  | Intersection traffic control      | Intersection traffic control - other                      | 2       | Intersections | \$536320              | \$536320               | HSIP (23 U.S.C. 148)                    | varies                                 | 0      |       | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0034-0345CN  | Intersection geometry             | Intersection geometrics - miscellaneous/other/unspecified | 1       | Intersections | \$996642              | \$1107380              | HSIP (23 U.S.C. 148)                    | Urban Principal Arterial (UPA) - Other | 14,300 | 35    | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0034-0324RW+ | Intersection geometry             | Intersection geometrics - miscellaneous/other/unspecified | 1       | Intersections | \$101901              | \$113223               | HSIP (23 U.S.C. 148)                    | Urban Minor Arterial                   | 23,450 | 25    | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0171-0393CN  | Intersection traffic control      | Intersection traffic control - other                      | 1       | Intersections | \$438500              | \$438500               | HSIP (23 U.S.C. 148)                    | Urban Minor Collector                  | 36,400 | 45    | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0063-0696CN+ | Intersection traffic control      | Intersection traffic control - other                      | 1       | Intersections | \$50778               | \$56420                | HSIP (23 U.S.C. 148)                    | Urban Principal Arterial (UPA) - Other | 26,250 | 30    | Town or Township Highway Agency | Spot                      | Intersections        | reduce conflicts      |
| 0170-3480PL  | Non-infrastructure                | Transportation safety planning                            | 1       | report        | \$180000              | \$200000               | HSIP (23 U.S.C. 148)                    | varies                                 | 0      |       | State Highway Agency            | Spot                      | Pedestrians          | reduce conflicts      |
| 0084-0108PE+ | Intersection traffic control      | Modify control - two-way stop to roundabout               | 1       | Intersections | \$33000               | \$33000                | HSIP (23 U.S.C. 148)                    | Urban Minor Arterial                   | 11,750 | 40    | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0171-0409CN  | Roadway signs and traffic control | Sign sheeting - upgrade or replacement                    | 246     | Locations     | \$605231              | \$605231               | HSIP (23 U.S.C. 148)                    | varies                                 | 0      |       | Town or Township Highway Agency | Systemic                  | Roadway Departure    | keep vehicles on road |
| 0172-0451CN+ | Roadway signs and traffic control | Sign sheeting - upgrade or replacement                    | 411     | Locations     | \$244383              | \$244383               | HSIP (23 U.S.C. 148)                    | varies                                 | 0      |       | Town or Township Highway Agency | Systemic                  | Roadway Departure    | keep vehicles on road |
| 0172-0435CN  | Intersection traffic control      | Intersection traffic control - other                      | 8       | Intersections | \$1879915             | \$1921260              | HSIP (23 U.S.C. 148)                    | varies                                 | 0      |       | State Highway Agency            | Spot                      | Intersections        | reduce conflicts      |
| 0172-0456CN  | Roadway signs and traffic control | Roadway signs (including post) - new or updated           | 642     | Locations     | \$1502890             | \$1502890              | HRRR Special Rule (23 U.S.C. 148(g)(1)) | Rural Minor Arterial                   | 0      |       | Town or Township Highway Agency | Systemic                  | Roadway Departure    | keep vehicles on road |
| 0172-0451CN  | Roadway signs and traffic control | Sign sheeting - upgrade or replacement                    | 411     | Locations     | \$232145              | \$232145               | HRRR Special Rule (23 U.S.C. 148(g)(1)) | varies                                 | 0      |       | Town or Township Highway Agency | Systemic                  | Roadway Departure    | keep vehicles on road |
| 0171-0409CN  | Roadway signs and traffic control | Sign sheeting - upgrade or replacement                    | 246     | Locations     | \$160000              | \$160000               | HRRR Special Rule (23 U.S.C. 148(g)(1)) | varies                                 | 0      |       | Town or Township Highway Agency | Systemic                  | Roadway Departure    | keep vehicles on road |

2018 Connecticut Highway Safety Improvement Program

|              |                              |                                                           |         |               |                       |                        |                      |                                        |        |       |                                 |                           | RELATIONSHIP 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         |
| 0102-0346CN+ | Intersection geometry        | Auxiliary lanes - add left-turn lane                      | 1       | Intersections | \$203127              | \$225697               | HSIP (23 U.S.C. 148) | Urban Minor Arterial                   | 19,750 | 30    | State Highway Agency            | Spot                      | Intersections        | reduce conflicts |
| 0144-0196PE  | Intersection traffic control | Intersection traffic control - other                      | 1       | Intersections | \$225000              | \$250000               | HSIP (23 U.S.C. 148) | Urban Minor Arterial                   | 19,750 | 35    | State Highway Agency            | Spot                      | Intersections        | reduce conflicts |
| 0063-0593CN+ | Intersection traffic control | Intersection traffic control - other                      | 1       | Intersections | \$18451               | \$18451                | HSIP (23 U.S.C. 148) | Urban Minor Arterial                   | 11,600 | 30    | Town or Township Highway Agency | Spot                      | Intersections        | reduce conflicts |
| 0138-0211CN  | Intersection geometry        | Intersection geometrics - miscellaneous/other/unspecified | 1       | Intersections | \$503570              | \$503570               | HSIP (23 U.S.C. 148) | Urban Principal Arterial (UPA) - Other | 21,200 | 30    | State Highway Agency            | Spot                      | Intersections        | reduce conflicts |
| 0092-0681PE+ | Intersection geometry        | Auxiliary lanes - add left-turn lane                      | 1       | Intersections | \$90000               | \$100000               | HSIP (23 U.S.C. 148) | Urban Principal Arterial (UPA) - Other | 32,000 | 35    | State Highway Agency            | Spot                      | Intersections        | reduce conflicts |

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

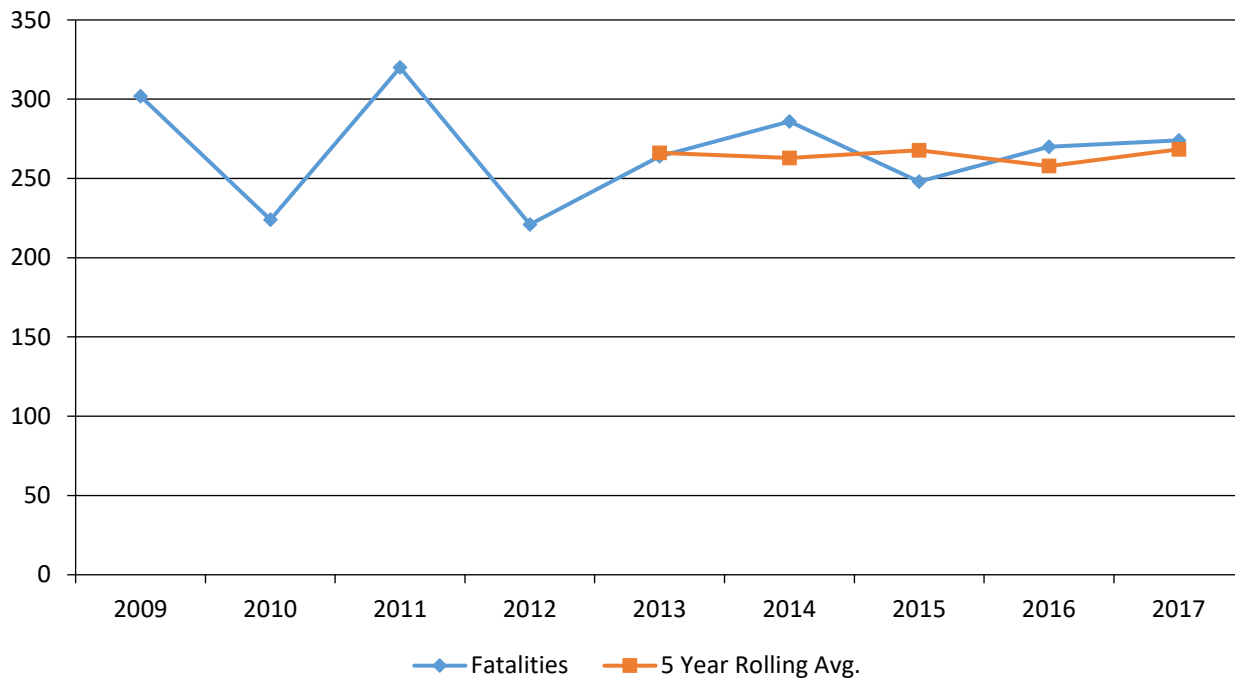
## Safety Performance

### *General Highway Safety Trends*

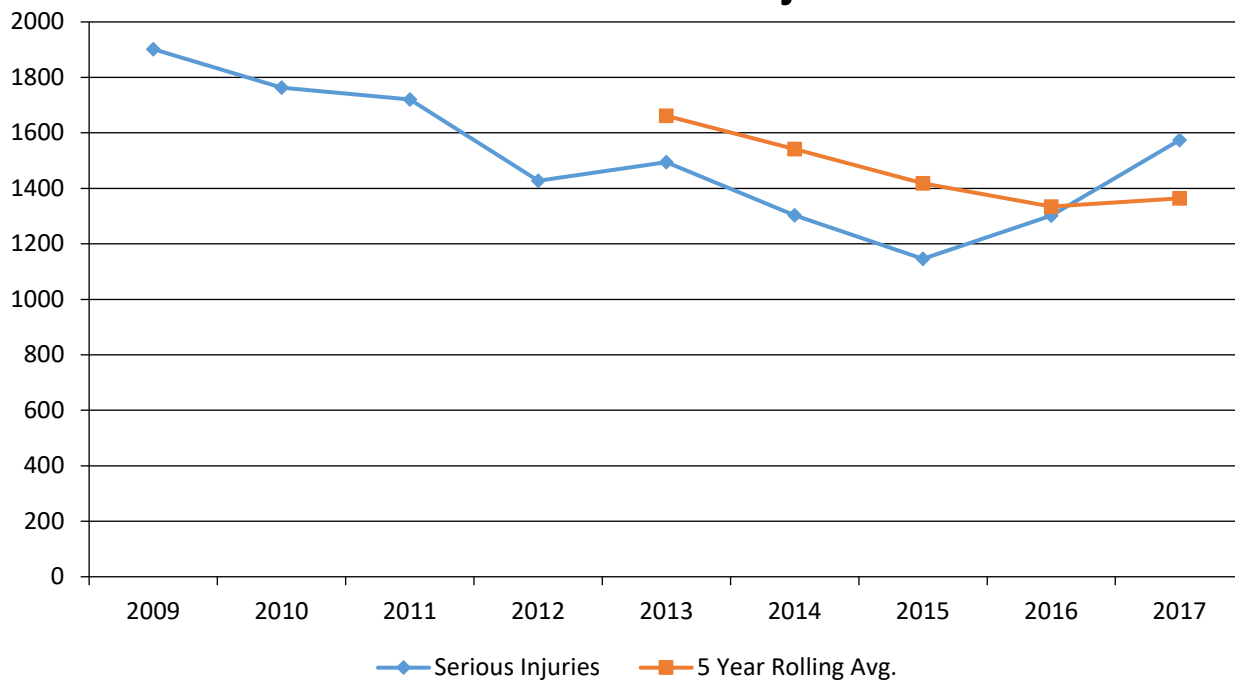
Present data showing the general highway safety trends in the State for the past five years.

| PERFORMANCE MEASURES                     | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  |
|------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Fatalities                               | 302   | 224   | 320   | 221   | 264   | 286   | 248   | 270   | 274   |
| Serious Injuries                         | 1,902 | 1,763 | 1,721 | 1,428 | 1,494 | 1,303 | 1,146 | 1,302 | 1,574 |
| Fatality rate (per HMVMT)                | 0.950 | 0.710 | 1.020 | 0.710 | 0.840 | 0.920 | 0.800 | 0.850 | 0.873 |
| Serious injury rate (per HMVMT)          | 5.990 | 5.610 | 5.500 | 4.580 | 4.780 | 4.210 | 3.670 | 4.120 | 5.024 |
| Number non-motorized fatalities          | 53    | 27    | 53    | 34    | 47    | 40    | 51    | 48    | 49    |
| Number of non-motorized serious injuries | 289   | 290   | 248   | 247   | 241   | 227   | 213   | 251   | 241   |

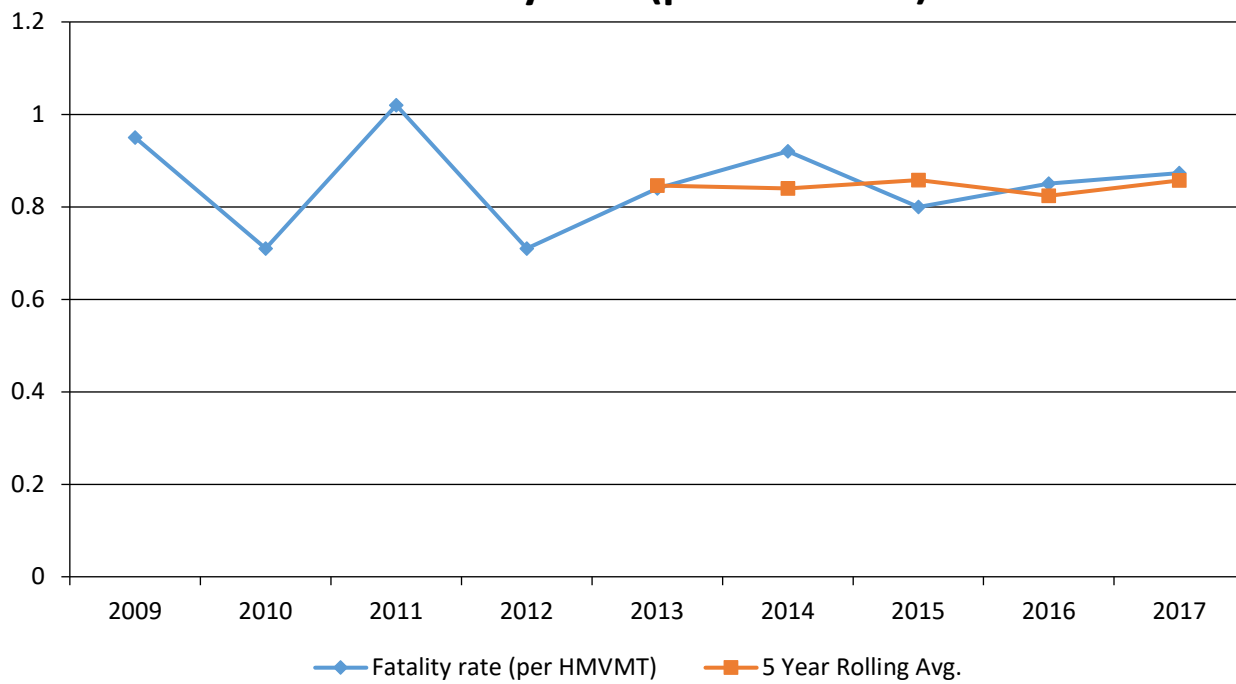
## Annual Fatalities



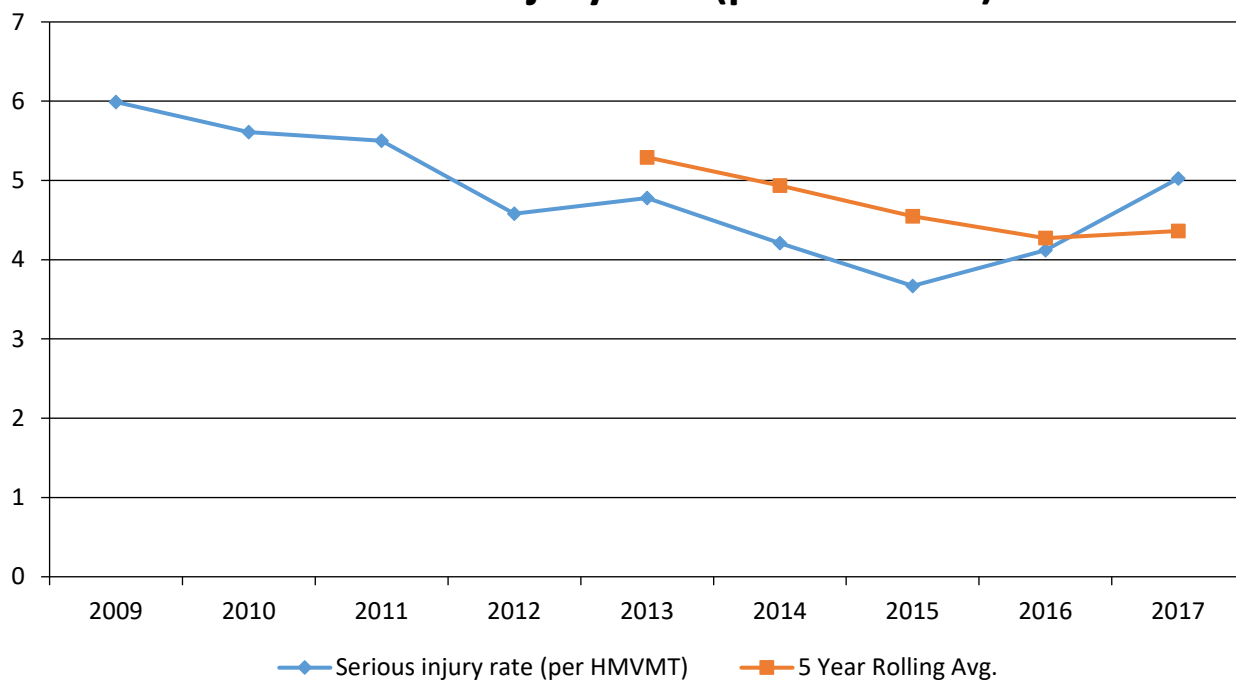
## Annual Serious Injuries



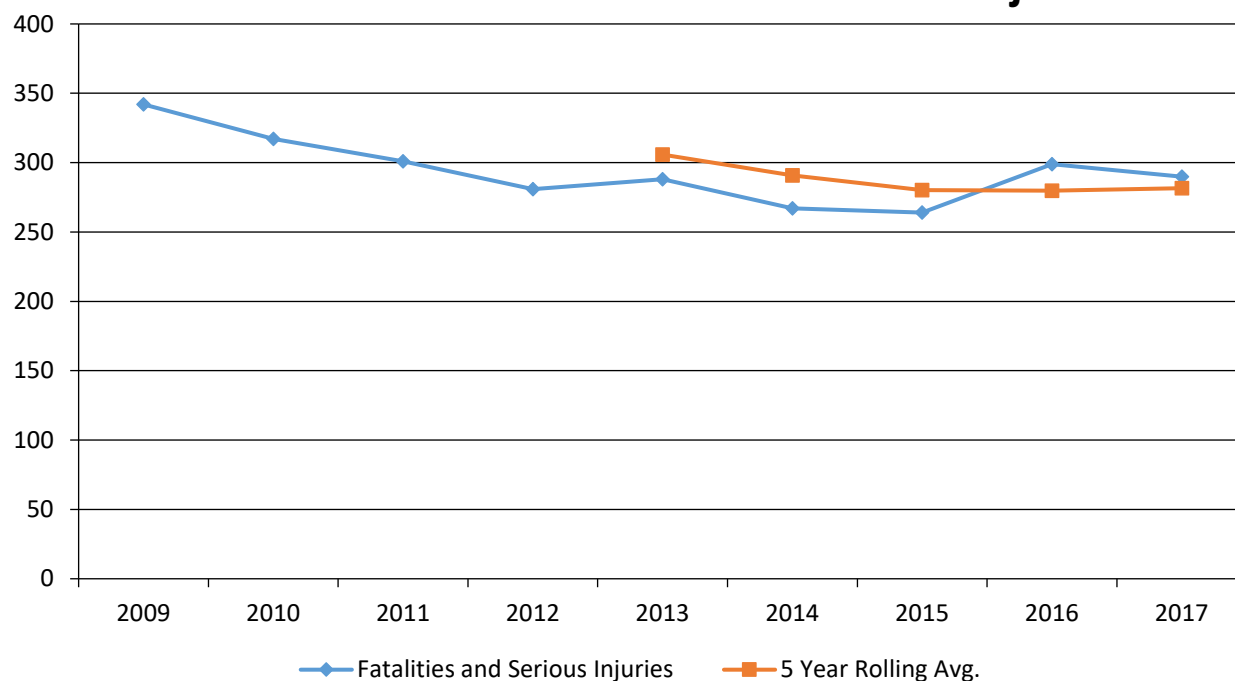
### Fatality rate (per HMVMT)



### Serious injury rate (per HMVMT)



## Non Motorized Fatalities and Serious Injuries



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

Describe fatality data source.

FARS

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

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

### Year 2016

| Functional Classification                                             | Number of Fatalities<br>(5-yr avg) | Number of Serious<br>Injuries<br>(5-yr avg) | Fatality Rate<br>(per HMVMT)<br>(5-yr avg) | Serious Injury Rate<br>(per HMVMT)<br>(5-yr avg) |
|-----------------------------------------------------------------------|------------------------------------|---------------------------------------------|--------------------------------------------|--------------------------------------------------|
| Rural Principal Arterial<br>(RPA) - Interstate                        | 9.6                                |                                             | 1.57                                       |                                                  |
| Rural Principal Arterial<br>(RPA) - Other Freeways<br>and Expressways | 1                                  |                                             | 0.34                                       |                                                  |
| Rural Principal Arterial<br>(RPA) - Other                             | 12.4                               |                                             | 2.73                                       |                                                  |
| Rural Minor Arterial                                                  | 11.2                               |                                             | 2.49                                       |                                                  |
| Rural Minor Collector                                                 | 1.6                                |                                             | 1.09                                       |                                                  |

## 2018 Connecticut Highway Safety Improvement Program

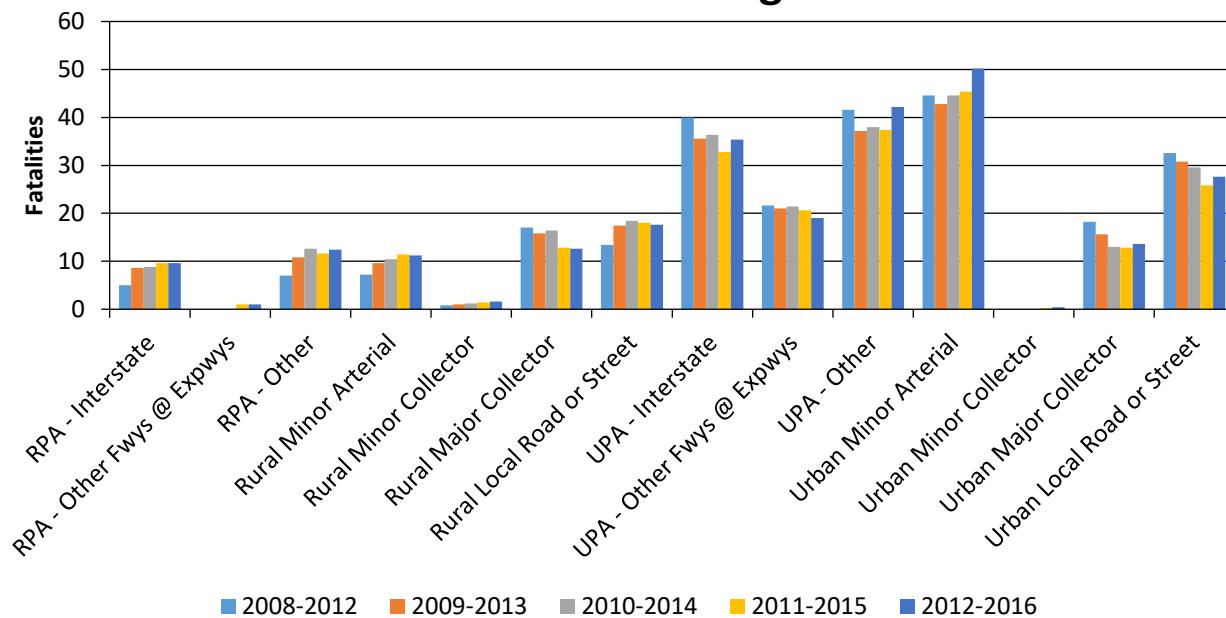
| Functional Classification                                             | Number of Fatalities<br>(5-yr avg) | Number of Serious<br>Injuries<br>(5-yr avg) | Fatality Rate<br>(per HMVMT)<br>(5-yr avg) | Serious Injury Rate<br>(per HMVMT)<br>(5-yr avg) |
|-----------------------------------------------------------------------|------------------------------------|---------------------------------------------|--------------------------------------------|--------------------------------------------------|
| Rural Major Collector                                                 | 12.6                               |                                             | 1.46                                       |                                                  |
| Rural Local Road or Street                                            | 17.6                               |                                             | 2.54                                       |                                                  |
| Urban Principal Arterial<br>(UPA) - Interstate                        | 35.4                               |                                             | 0.36                                       |                                                  |
| Urban Principal Arterial<br>(UPA) - Other Freeways<br>and Expressways | 19                                 |                                             | 0.47                                       |                                                  |
| Urban Principal Arterial<br>(UPA) - Other                             | 42.2                               |                                             | 1.12                                       |                                                  |
| Urban Minor Arterial                                                  | 50.2                               |                                             | 0.99                                       |                                                  |
| Urban Minor Collector                                                 | 0.4                                |                                             | 0.17                                       |                                                  |
| Urban Major Collector                                                 | 13.6                               |                                             | 0.52                                       |                                                  |
| Urban Local Road or Street                                            | 27.6                               |                                             | 1.1                                        |                                                  |

# 2018 Connecticut Highway Safety Improvement Program

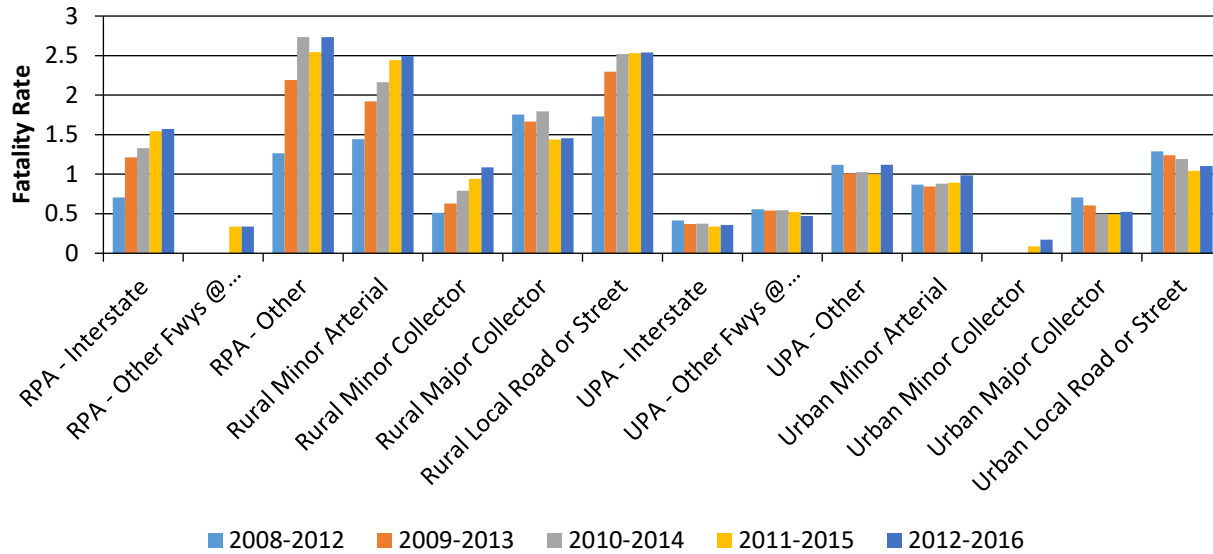
**Year 2017**

| <b>Roadways</b>                                                       | <b>Number of Fatalities<br/>(5-yr avg)</b> | <b>Number of Serious<br/>Injuries<br/>(5-yr avg)</b> | <b>Fatality Rate<br/>(per HMVMT)<br/>(5-yr avg)</b> | <b>Serious Injury Rate<br/>(per HMVMT)<br/>(5-yr avg)</b> |
|-----------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|
| State Highway Agency                                                  | 190.4                                      | 775.4                                                |                                                     |                                                           |
| County Highway Agency                                                 |                                            |                                                      |                                                     |                                                           |
| Town or Township<br>Highway Agency                                    | 81                                         | 740.8                                                |                                                     |                                                           |
| City of Municipal Highway<br>Agency                                   |                                            |                                                      |                                                     |                                                           |
| State Park, Forest, or<br>Reservation Agency                          |                                            |                                                      |                                                     |                                                           |
| Local Park, Forest or<br>Reservation Agency                           |                                            |                                                      |                                                     |                                                           |
| Other State Agency                                                    |                                            |                                                      |                                                     |                                                           |
| Other Local Agency                                                    |                                            |                                                      |                                                     |                                                           |
| Private (Other than<br>Railroad)                                      |                                            |                                                      |                                                     |                                                           |
| Railroad                                                              |                                            |                                                      |                                                     |                                                           |
| State Toll Authority                                                  |                                            |                                                      |                                                     |                                                           |
| Local Toll Authority                                                  |                                            |                                                      |                                                     |                                                           |
| Other Public<br>Instrumentality (e.g.<br>Airport, School, University) |                                            |                                                      |                                                     |                                                           |
| Indian Tribe Nation                                                   |                                            |                                                      |                                                     |                                                           |

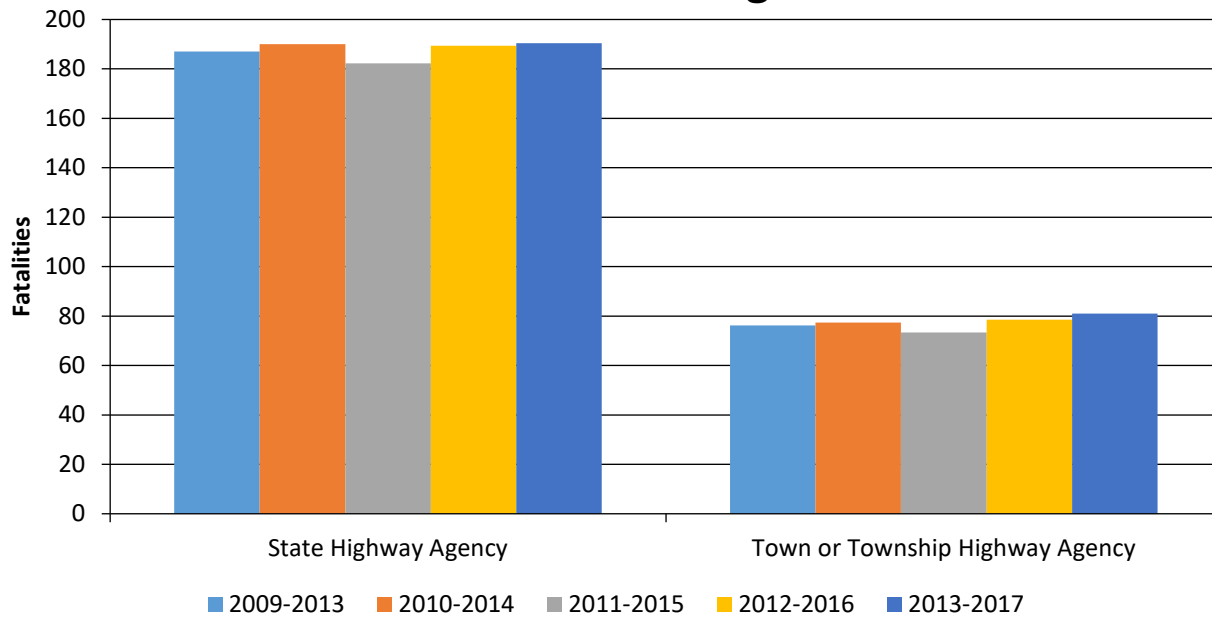
## Number of Fatalities by Functional Classification 5 Year Average



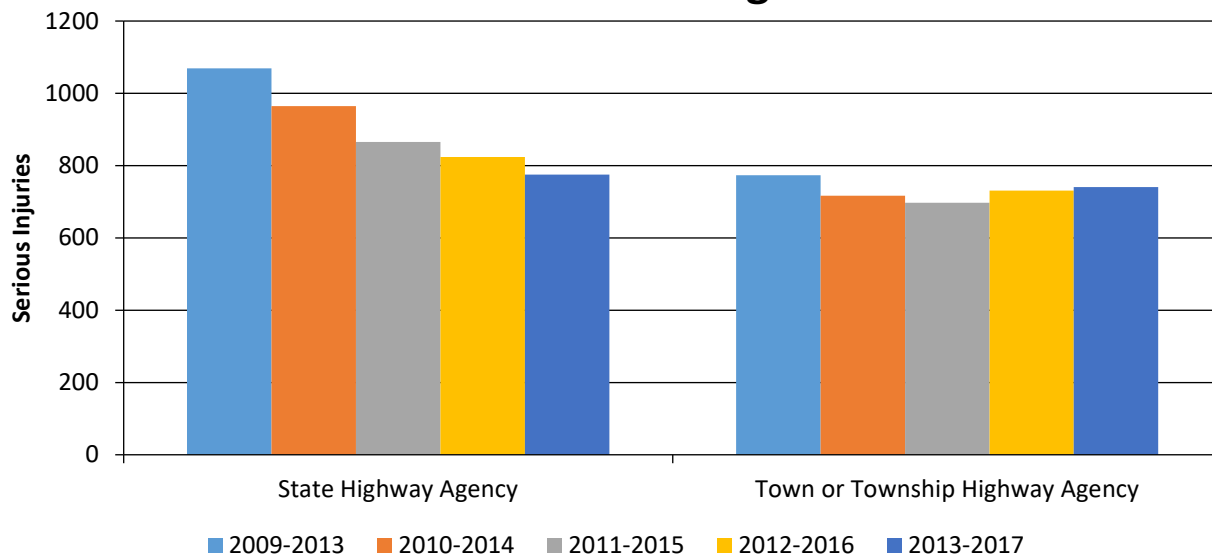
## Fatality Rate (per HMVMT) by Functional Classification 5 Year Average



## Number of Fatalities by Roadway Ownership 5 Year Average



## Number of Serious Injuries by Roadway Ownership 5 Year Average



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

FARS is the source for the number of fatalities based on functional class. The source of data for HMVMT is FHWA Table VM-2. Table VM-2 was not available for 2016 when data was entered into the OLT so 2015 data was used instead.

The state's crash file still does not have serious injury crash data broken down by functional class so those columns are blank.

The state's crash file is the data source for the number of fatalities and serious injuries on state highway and local roads for 2017.

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

No

### ***Safety Performance Targets***

### **Safety Performance Targets**

### **Calendar Year 2019 Targets \***

|                             |       |
|-----------------------------|-------|
| <b>Number of Fatalities</b> | 274.0 |
|-----------------------------|-------|

## 2018 Connecticut Highway Safety Improvement Program

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

Annual fatality figures have fluctuated during the five year reporting period, but the 5 year moving average has been flat or increasing. The projected 5 year trend line based on a regression analysis is relatively flat for the next 2 years. Based on the projected trend line, the number of fatalities is expected to remain flat or slightly increase during the planning period.

**Number of Serious Injuries** 1574.0

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

While the serious injuries have fluctuated year to year, the 5 year moving average has been trending down with the except of the last two years which have been flat. The projected 5 year trend line based on a regression analysis is slightly decreasing for the next 2 years. However the most recent 3 years of data (2015-2017) suggest the number of serious injuries is no longer decreasing. Based on the projected trend line and the most recent 3 years of data, the number of serious injuries is expected to be flat during the planning period.

**Fatality Rate** 0.873

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

While the annual fatality rate (per HMVMT) has fluctuated year to year, the moving 5 year average has been flat or slightly increasing. The projected 5 year trend line based on a regression analysis is relatively flat for the next 2 years. Based on the projected trend line, the fatality rate is expected to remain flat or slightly increase during the planning period.

**Serious Injury Rate** 5.024

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

While the serious injury rate (per HMVMT) has fluctuated year to year, the moving 5 year average has been trending down but flat over the last 3 years. The projected 5 year trend line based on a regression analysis is slightly decreasing for the next 2 years. However the most recent 3 years of data (2015-2017) suggest the number of serious injuries is no longer decreasing but instead might be flattening out. Based on the projected trend line and the most recent 3 years of data, the serious injury rate is expected to be flat during the planning period.

**Total Number of Non-Motorized  
Fatalities and Serious Injuries** 290.0

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

While non-motorized fatalities and serious injuries fluctuated year to year, the moving 5 year average has increased during the 2 years. The projected 5 year trend line based on a regression analysis is flat for the next 2 years. However the most recent 3 years of

## 2018 Connecticut Highway Safety Improvement Program

data (2015-2017) suggest the number of non-motorized fatalities and serious injuries is increasing. Based on the projected trend line, the number of non-motorized fatalities and serious injuries is expected to remain the same or decrease slightly during the planning period.

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

The targets for each of the safety performance measures support the overall goal in CT's latest SHSP of reducing fatalities and serious injuries on all public roads 15 percent by 2021. The SHSP is living document and the strategies can be updated if CT is not meeting the stated goals.

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

On June 19, 2018, CTDOT hosted a meeting with all the MPOs to discuss the safety performance targets required by FHWA and NHTSA.

**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?**

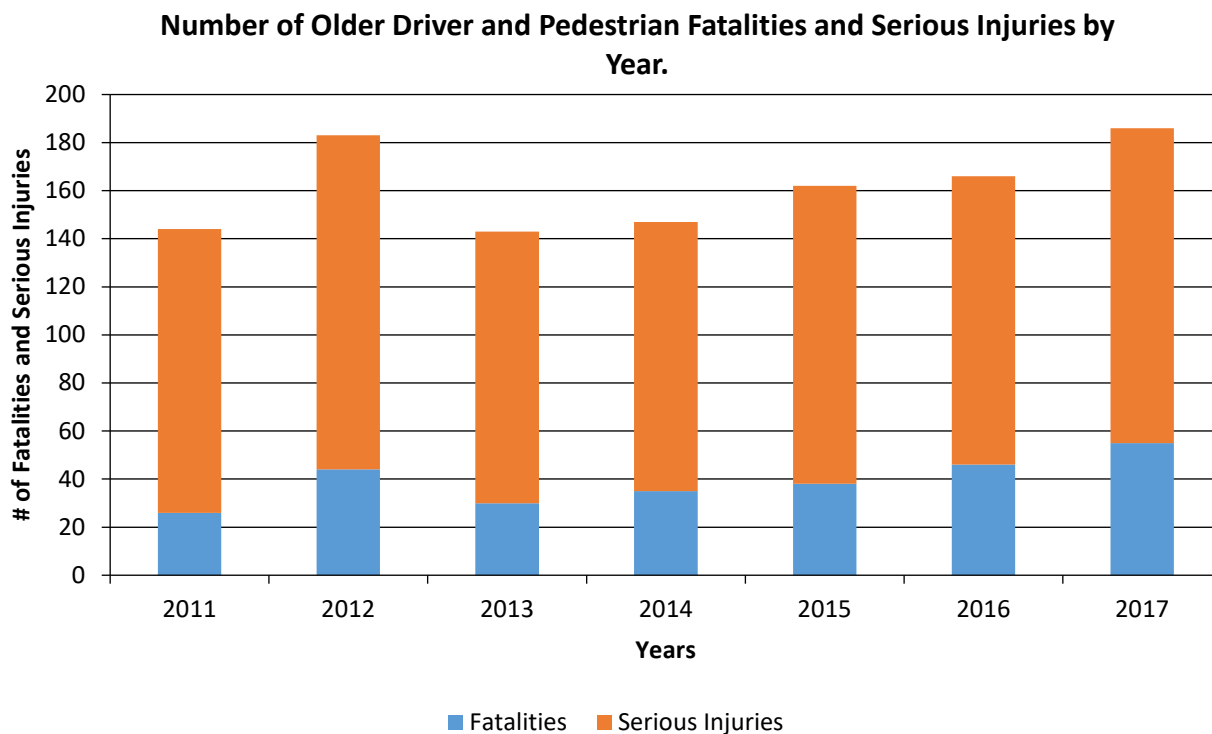
Yes

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

CT's apportionment during the reporting period was \$1,502,890 and all the funds were obligated. The HRRR projects were 172-451, 172-456, 171-409. See Q29 (Project Listing) for additional details.

**Provide the number of older driver and pedestrian fatalities and serious injuries 65 years of age and older for the past seven years.**

| PERFORMANCE MEASURES                                   | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|--------------------------------------------------------|------|------|------|------|------|------|------|
| Number of Older Driver and Pedestrian Fatalities       | 26   | 44   | 30   | 35   | 38   | 46   | 55   |
| Number of Older Driver and Pedestrian Serious Injuries | 118  | 139  | 113  | 112  | 124  | 120  | 131  |



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

Data source for the number of older drivers and pedestrian fatalities is FARS with the exception of 2017 data which is from the UCONN crash data repository.

Data source for the number of older drivers and pedestrian serious injuries in the UCONN crash data repository.

it should be noted that the data for years 2011-2016 was updated and many of the values are different from last years HSIP report. The number of older drivers and pedestrian fatalities were verified by another data source (UCONN crash data repository and it is unclear why the numbers are different.

## Evaluation

### *Program Effectiveness*

#### **How does the State measure effectiveness of the HSIP?**

Change in fatalities and serious injuries

**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.**

Since the number of fatalities and serious injuries has slightly increased over the last year, it is difficult to evaluate the State's HSIP program. CT finalized its SHSP in July 2017 and it is anticipated that many of the infrastructure related strategies will be implemented resulting in fewer fatalities and serious injuries.

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

More systemic programs  
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.**

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

No

### *Effectiveness of Groupings or Similar Types of Improvements*

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

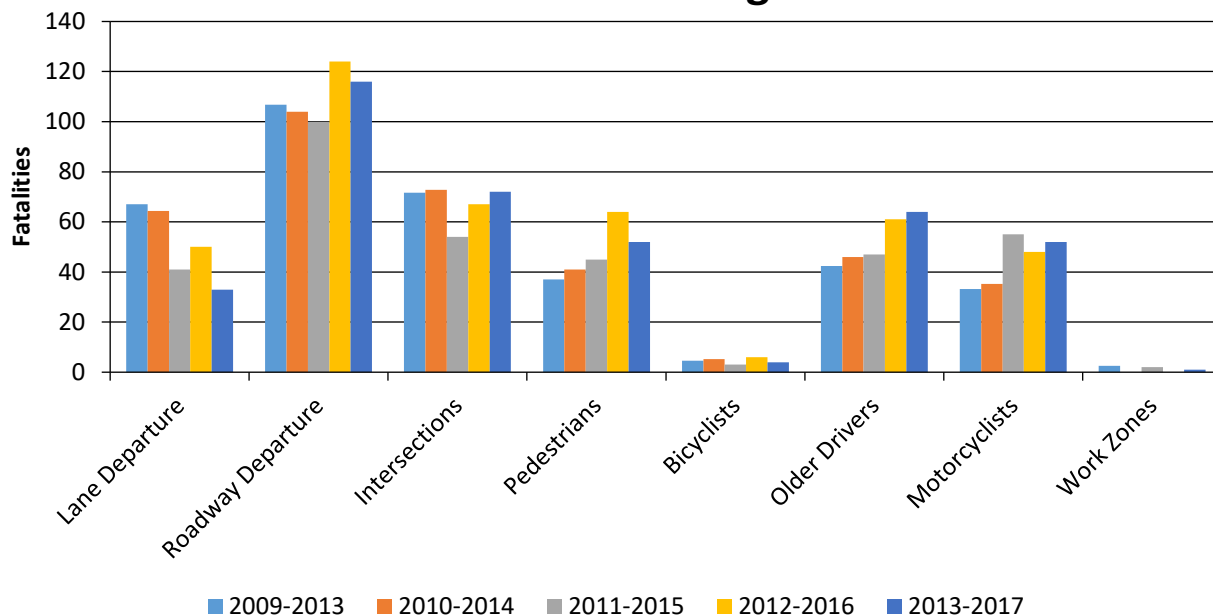
## Year 2017

| 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) |
|--------------------|---------------------|---------------------------------|---------------------------------------|--------------------------------------|--------------------------------------------|
| Lane Departure     | All                 | 33                              | 148                                   | 0.1                                  | 0.47                                       |

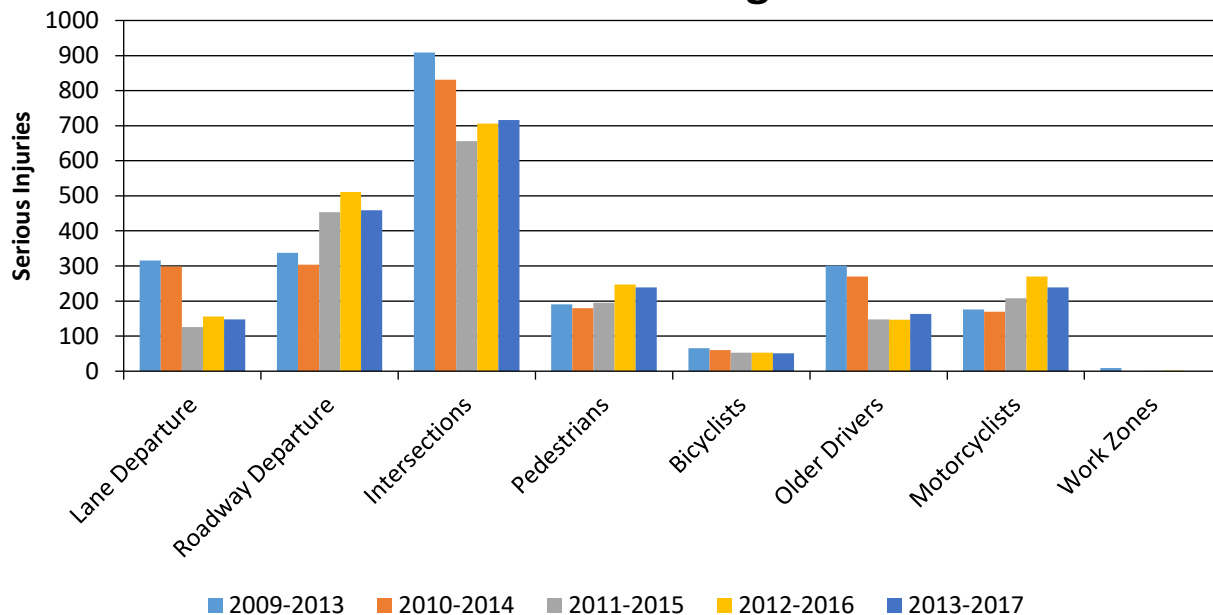
## 2018 Connecticut Highway Safety Improvement Program

| 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) |
|--------------------|---------------------|---------------------------------|---------------------------------------|--------------------------------------|--------------------------------------------|
| Roadway Departure  | All                 | 116                             | 459                                   | 0.37                                 | 1.45                                       |
| Intersections      | All                 | 72                              | 716                                   | 0.23                                 | 2.26                                       |
| Pedestrians        | All                 | 52                              | 239                                   | 0.16                                 | 0.75                                       |
| Bicyclists         | All                 | 4                               | 51                                    | 0.01                                 | 0.16                                       |
| Older Drivers      | All                 | 64                              | 163                                   | 0.2                                  | 0.51                                       |
| Motorcyclists      | All                 | 52                              | 239                                   | 0.16                                 | 0.75                                       |
| Work Zones         | All                 | 1                               | 0                                     | 0                                    | 0                                          |

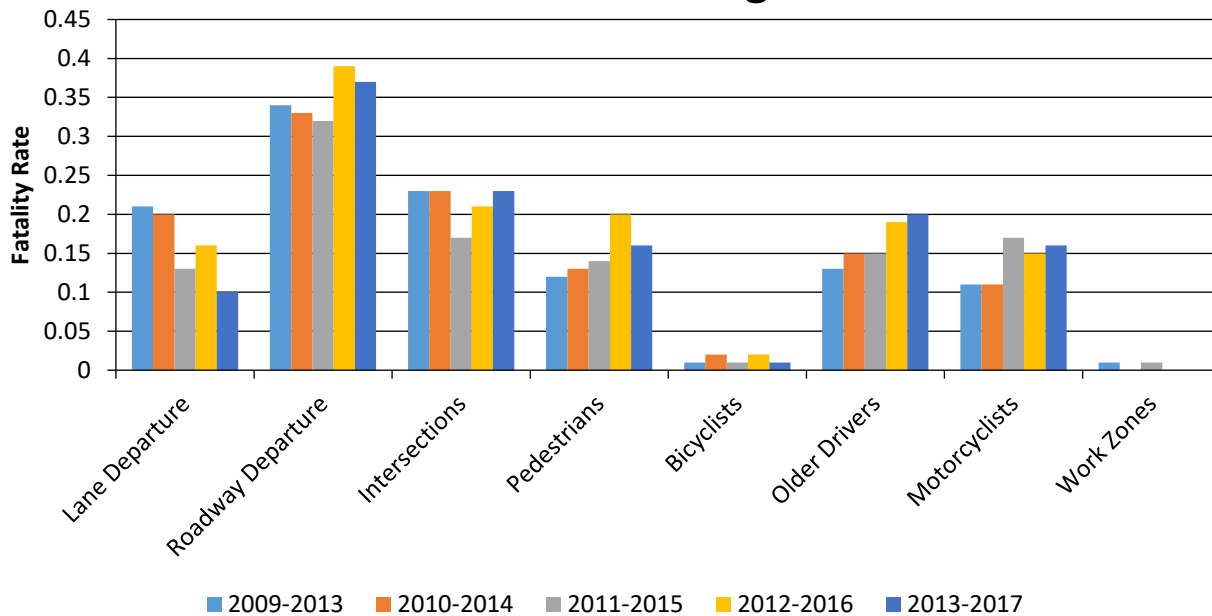
## Number of Fatalities 5 Year Average



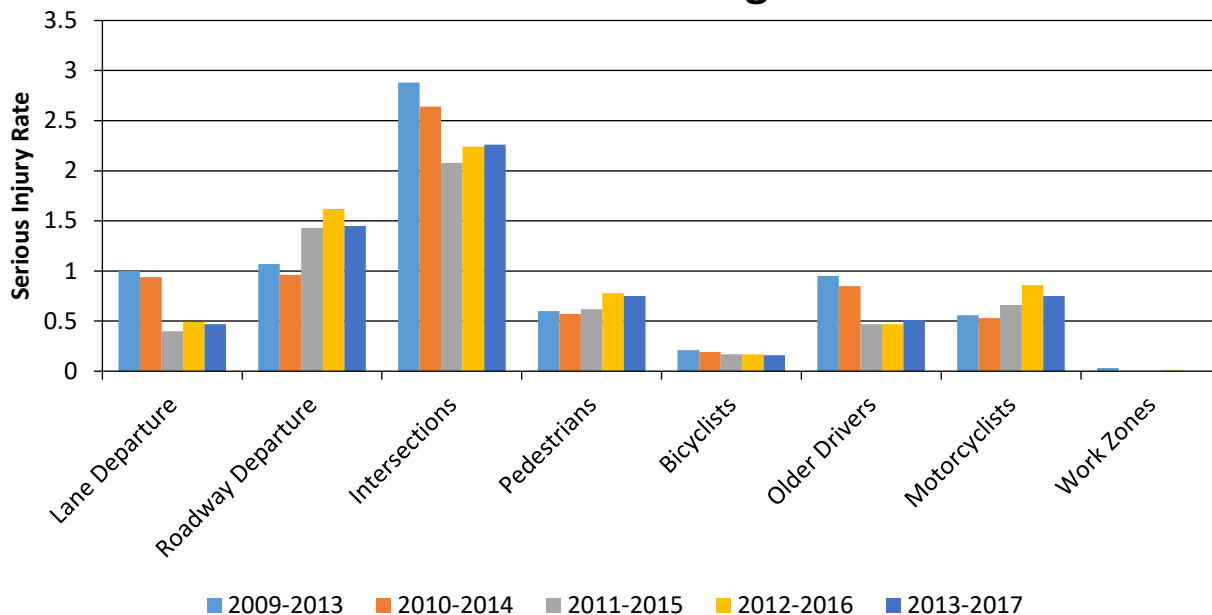
## Number of Serious Injuries 5 Year Average



## Fatality Rate (per HMVMT) 5 Year Average



## Serious Injury Rate (per HMVMT) 5 Year Average



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

Annual data from 2015 and 2016 was updated from last years report to address an input error.

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

2018 Connecticut Highway Safety Improvement Program

No

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

Project 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 OTHER INJURY BEFORE | ALL OTHER INJURY AFTER | TOTAL BEFORE | TOTAL AFTER | EVALUATION RESULTS (BENEFIT/COST RATIO) |
|----------|------------------|----------------------|------------------|------------|-----------|-----------------|----------------|-----------------------|----------------------|-------------------------|------------------------|--------------|-------------|-----------------------------------------|
| 0        |                  |                      |                  |            |           |                 |                |                       |                      |                         |                        |              |             |                                         |

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

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

No

Compliance Assessment

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

05/18/2017

What are the years being covered by the current SHSP?

From: 2017 To: 2021

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

2022

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.

| MIRE NAME (MIRE NO.)                | NON LOCAL PAVED<br>ROADS - SEGMENT |           | NON LOCAL PAVED<br>ROADS - INTERSECTION |           | NON LOCAL PAVED<br>ROADS - RAMPS |           | LOCAL PAVED ROADS |           | UNPAVED ROADS |           |
|-------------------------------------|------------------------------------|-----------|-----------------------------------------|-----------|----------------------------------|-----------|-------------------|-----------|---------------|-----------|
|                                     | STATE                              | NON-STATE | STATE                                   | NON-STATE | STATE                            | NON-STATE | STATE             | NON-STATE | STATE         | NON-STATE |
| ROADWAY SEGMENT                     |                                    |           |                                         |           |                                  |           |                   |           |               |           |
| Segment Identifier (12)             | 100                                | 100       |                                         |           |                                  |           | 80                | 99        | 60            | 90        |
| Route Number (8)                    | 100                                | 100       |                                         |           |                                  |           |                   |           |               |           |
| Route/Street Name (9)               | 100                                | 100       |                                         |           |                                  |           |                   |           |               |           |
| Federal Aid/Route Type (21)         | 100                                | 100       |                                         |           |                                  |           |                   |           |               |           |
| Rural/Urban Designation (20)        | 100                                | 100       |                                         |           |                                  |           | 100               | 99        |               |           |
| Surface Type (23)                   | 100                                | 100       |                                         |           |                                  |           | 81                | 99        |               |           |
| Begin Point Segment Descriptor (10) | 100                                | 100       |                                         |           |                                  |           | 81                | 99        | 61            | 90        |
| End Point Segment Descriptor (11)   | 100                                | 100       |                                         |           |                                  |           | 81                | 99        | 61            | 90        |
| Segment Length (13)                 | 100                                | 100       |                                         |           |                                  |           |                   |           |               |           |
| Direction of Inventory (18)         | 100                                | 100       |                                         |           |                                  |           |                   |           |               |           |
| Functional Class (19)               | 100                                | 100       |                                         |           |                                  |           | 100               | 99        | 100           | 90        |
| Median Type (54)                    | 70                                 | 50        |                                         |           |                                  |           |                   |           |               |           |
| Access Control (22)                 | 100                                | 100       |                                         |           |                                  |           |                   |           |               |           |

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| MIRE NAME (MIRE NO.)                                                | NON LOCAL PAVED<br>ROADS - SEGMENT |           | NON LOCAL PAVED<br>ROADS - INTERSECTION |           | NON LOCAL PAVED<br>ROADS - RAMPS |           | LOCAL PAVED ROADS |           | UNPAVED ROADS |           |
|---------------------------------------------------------------------|------------------------------------|-----------|-----------------------------------------|-----------|----------------------------------|-----------|-------------------|-----------|---------------|-----------|
|                                                                     | STATE                              | NON-STATE | STATE                                   | NON-STATE | STATE                            | NON-STATE | STATE             | NON-STATE | STATE         | NON-STATE |
| One/Two Way Operations (91)                                         | 100                                | 100       |                                         |           |                                  |           |                   |           |               |           |
| Number of Through Lanes (31)                                        | 100                                | 100       |                                         |           |                                  |           | 80                | 99        |               |           |
| Average Annual Daily Traffic (79)                                   | 100                                | 100       |                                         |           |                                  |           | 80                | 99        |               |           |
| AADT Year (80)                                                      | 100                                | 100       |                                         |           |                                  |           |                   |           |               |           |
| Type of Governmental Ownership (4)                                  | 100                                | 100       |                                         |           |                                  |           | 100               | 99        | 100           | 90        |
| INTERSECTION                                                        |                                    |           |                                         |           |                                  |           |                   |           |               |           |
| Unique Junction Identifier (120)                                    |                                    |           | 14.25                                   | 2         |                                  |           |                   |           |               |           |
| Location Identifier for Road 1 Crossing Point (122)                 |                                    |           | 100                                     | 100       |                                  |           |                   |           |               |           |
| Location Identifier for Road 2 Crossing Point (123)                 |                                    |           | 100                                     | 100       |                                  |           |                   |           |               |           |
| Intersection/Junction Geometry (126)                                |                                    |           | 14.25                                   | 2         |                                  |           |                   |           |               |           |
| Intersection/Junction Traffic Control (131)                         |                                    |           | 14.25                                   | 2         |                                  |           |                   |           |               |           |
| AADT for Each Intersecting Road (79)                                |                                    |           | 100                                     | 100       |                                  |           |                   |           |               |           |
| AADT Year (80)                                                      |                                    |           | 100                                     | 100       |                                  |           |                   |           |               |           |
| Unique Approach Identifier (139)                                    |                                    |           | 14.25                                   | 2         |                                  |           |                   |           |               |           |
| INTERCHANGE/RAMP                                                    |                                    |           |                                         |           |                                  |           |                   |           |               |           |
| Unique Interchange Identifier (178)                                 |                                    |           |                                         |           | 0                                | 0         |                   |           |               |           |
| Location Identifier for Roadway at Beginning of Ramp Terminal (197) |                                    |           |                                         |           | 100                              | 100       |                   |           |               |           |
| Location Identifier for Roadway at Ending Ramp Terminal (201)       |                                    |           |                                         |           | 100                              | 100       |                   |           |               |           |
| Ramp Length (187)                                                   |                                    |           |                                         |           | 100                              | 100       |                   |           |               |           |
| Roadway Type at Beginning of Ramp Terminal (195)                    |                                    |           |                                         |           | 100                              | 100       |                   |           |               |           |
| Roadway Type at End Ramp Terminal (199)                             |                                    |           |                                         |           | 100                              | 100       |                   |           |               |           |

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| MIRE NAME (MIRE NO.)               | NON LOCAL PAVED ROADS - SEGMENT |           | NON LOCAL PAVED ROADS - INTERSECTION |           | NON LOCAL PAVED ROADS - RAMPS |           | LOCAL PAVED ROADS |           | UNPAVED ROADS |           |
|------------------------------------|---------------------------------|-----------|--------------------------------------|-----------|-------------------------------|-----------|-------------------|-----------|---------------|-----------|
|                                    | STATE                           | NON-STATE | STATE                                | NON-STATE | STATE                         | NON-STATE | STATE             | NON-STATE | STATE         | NON-STATE |
| Interchange Type (182)             |                                 |           |                                      |           | 0                             | 0         |                   |           |               |           |
| Ramp AADT (191)                    |                                 |           |                                      |           | 100                           | 100       |                   |           |               |           |
| Year of Ramp AADT (192)            |                                 |           |                                      |           | 100                           | 100       |                   |           |               |           |
| Functional Class (19)              |                                 |           |                                      |           | 100                           | 100       |                   |           |               |           |
| Type of Governmental Ownership (4) |                                 |           |                                      |           | 100                           | 100       |                   |           |               |           |
| Totals (Average Percent Complete): | 98.33                           | 97.22     | 57.13                                | 51.00     | 81.82                         | 81.82     | 87.00             | 99.00     | 76.40         | 90.00     |

\*Based on Functional Classification

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

CTDOT has recently made progress related to collection and integration of MIRE data specific to intersections since 9/30/17. We will report progress on next year's report.

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.

See "State of Connecticut Strategic Plan for Traffic Records 2018-2019" (pages 132-144)

[http://www.ct.gov/dot/lib/dot/documents/dtransportation\\_safety/traffic\\_records/trcc\\_traffic\\_records\\_strategic\\_plan.pdf](http://www.ct.gov/dot/lib/dot/documents/dtransportation_safety/traffic_records/trcc_traffic_records_strategic_plan.pdf)

Provide the suspected serious injury identifier, definition and attributes used by the State for both the crash report form and 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                    | Suspected Serious Injury (A)              | Yes                           | N/A                                                                          | Yes                           | N/A                                                                                                                                                                                                                                                                                                                                                                                                           | Yes                           |
| Crash Report Form Instruction Manual | Suspected Serious Injury (A)              | Yes                           | As any injury other than fatal that results in one or more of the following: | Yes                           | Severe laceration resulting in exposure of underlying tissues/muscle/organs or resulting in significant loss of blood;Broken or distorted extremity (arm or leg); Crush injuries; Suspected skull, chest or abdominal injury other than bruises or minor lacerations;Significant burns (second and third degree burns over 10% or more of the body);Unconsciousness when taken from the crash scene;Paralysis | Yes                           |
| Crash Database                       | Suspected Serious Injury (A)              | Yes                           | N/A                                                                          | Yes                           | N/A                                                                                                                                                                                                                                                                                                                                                                                                           | Yes                           |
| Crash Database Data Dictionary       | Suspected Serious Injury (A)              | Yes                           | As any injury other than fatal that results in one or more of the following: | Yes                           | A suspected serious injury is any injury other than fatal which results in one or more of the following:Severe laceration resulting in exposure of underlying tissues/muscle/organs or resulting in significant loss of blood;Broken or distorted extremity (arm or leg);Crush                                                                                                                                | Yes                           |

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| 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 * |
|----------|-------------------------------------------|-------------------------------|-------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
|          |                                           |                               |                                     |                               | injuries; Suspected skull, chest or abdominal injury other than bruises or minor lacerations;Significant burns (second and third degree burns over 10% or more of the body);Unconsciousness when taken from the crash scene;Paralysis |                               |

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

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

No

When does the State plan to complete it’s next HSIP program assessment.

2019

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

## **Optional Attachments**

Program Structure:

[CT's HSIP safety program.pdf](#)

Project Implementation:

Safety Performance:

Evaluation:

Compliance Assessment:

## Glossary

|                                             |                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>5 year rolling average</b>               | means the average of five individuals, consecutive annual points of data (e.g. annual fatality rate).                                                                                                                                                                                                     |
| <b>Emphasis area</b>                        | means a highway safety priority in a State's SHSP, identified through a data-driven, collaborative process.                                                                                                                                                                                               |
| <b>Highway safety improvement project</b>   | 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.                                                                            |
| <b>HMVMT</b>                                | means hundred million vehicle miles traveled.                                                                                                                                                                                                                                                             |
| <b>Non-infrastructure projects</b>          | 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.                                  |
| <b>Older driver special rule</b>            | 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. |
| <b>Performance measure</b>                  | means indicators that enable decision-makers and other stakeholders to monitor changes in system condition and performance against established visions, goals, and objectives.                                                                                                                            |
| <b>Programmed funds</b>                     | mean those funds that have been programmed in the Statewide Transportation Improvement Program (STIP) to be expended on highway safety improvement projects.                                                                                                                                              |
| <b>Roadway Functional Classification</b>    | 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.                                                                                                                                                 |
| <b>Strategic Highway Safety Plan (SHSP)</b> | 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.                                                                                                                                                  |
| <b>Systematic</b>                           | refers to an approach where an agency deploys countermeasures at all locations across a system.                                                                                                                                                                                                           |
| <b>Systemic safety improvement</b>          | means an improvement that is widely implemented based on high risk roadway features that are correlated with specific severe crash types.                                                                                                                                                                 |
| <b>Transfer</b>                             | 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.                                                 |