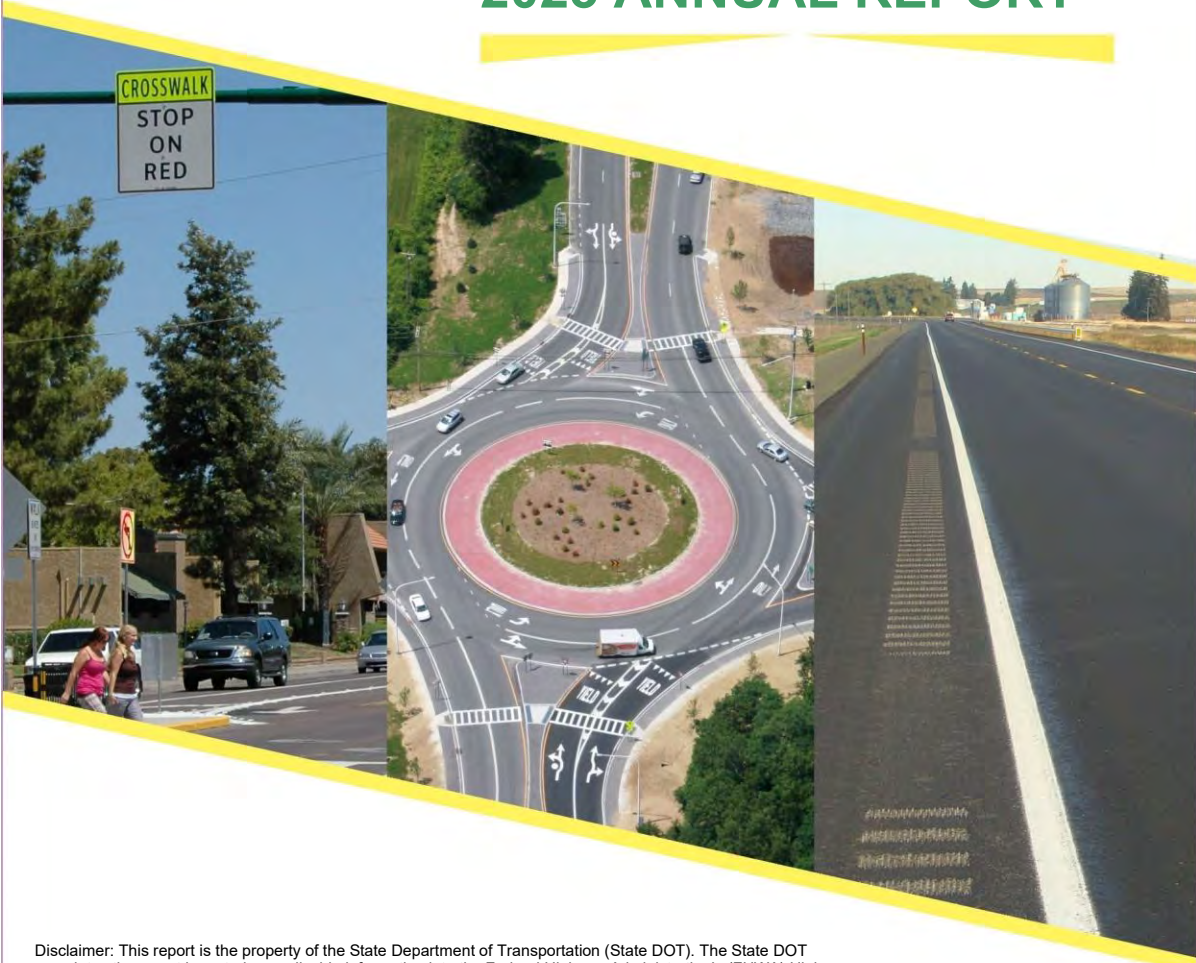




RHODE ISLAND

HIGHWAY SAFETY IMPROVEMENT PROGRAM 2023 ANNUAL REPORT



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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. 407 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

On behalf of the Rhode Island Department of Transportation (RIDOT) and the Office on Safety we are pleased to present the Highway Safety Improvement Program Annual Report for FY23.

In the past year, RIDOT has continued to make strides in the HSIP, including development of several systemic programs; streamlined effort to install countermeasures, and expanded local road program.

RIDOT has shifted most of our funding to the systemic program to help stretch our limited safety dollars. RIDOT developed a systemic, risk-based GIS-based tool for both the STEP and Horizontal Curve programs that has continued to be implemented over the past year. These 2 programs will help address over half of the fatal and serious injury crashes.

RIDOT also developed an Indefinite Delivery Indefinite Quantity (ID/IQ) contract that can streamline the installation of improvements within 3-6 months from diagnosis as well as help save on overhead costs often seen in larger construction projects. RIDOT revised their State TIP to include the ID/IQ starting in FY23. RIDOT developed two separate ID/IQ contracts that implement safety improvements such as signing, striping, ADA compliant wheelchair ramps, minor curb modifications, guardrail, and high friction surface treatment.

RIDOT also began to develop a Local Road program to help locals address safety issues. RIDOT participated in a FHWA Local Road Safety Plan workshop and plans to expand the program in FY24.

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.

Since 2010, The Rhode Island Department of Transportation (RIDOT) has followed the Highway Safety Manual process to guide their HSIP.

For network screening, RIDOT currently focuses on three programs: Roadway Departure; Pedestrian/Bike; and Angle Crashes.

The roadway departure program uses both systemic, risk based approach for curves and clear zones. Crash frequency and SPFs are used to identify hot spots on tangent segments. The Ped/Bike program uses a systemic, risk based approach using the STEP tool RIDOT recently developed. This tool uses over 20 attributes to assign a risk for each unsignalized crossings. For signalized crossings, RIDOT developed a systemic tool in FY22 and FY23 and will begin to incorporate it into the screening process in FY24.

The angle crash program currently uses frequency. RIDOT developed a systemic tool in FY22 and FY23 and will begin to incorporate it into the screening process in FY24.

For diagnosis, RIDOT conducts RSAs at most locations. For systemic treatments (curves, mid-block crossing), RIDOT often performs a smaller site visit.

For countermeasure identification, RIDOT relies on FHWA low-cost proven safety countermeasures, NCHRP, FHWA reports, and other safety documents to assist with countermeasure identification.

Improvements are **designed and implemented** in 3 ways: RIDOT Maintenance; ID/IQ or Project Management. RIDOT Maintenance and MPA allows RIDOT to streamline low-cost improvements (guardrail, signage, striping, tree removal) between 1 month and 1 year from diagnosis. Project Management is reserves for larger construction projects (roundabout, traffic signal replacement) and can take 1-3 years from diagnosis, funding dependent.

Once completed, the **projects are evaluated** to determine the safety effectiveness of the safety improvements. The resulting data will assist RIDOT with developing their own crash modification factors. RIDOT has developed a CMF for Road Diets and is currently developing them for Curve Delineation and High Friction.

Where is HSIP staff located within the State DOT?

Engineering

How are HSIP funds allocated in a State?

- Central Office via Statewide Competitive Application Process
- SHSP Emphasis Area Data

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

Network Screening

On an annual basis, the RIDOT identifies the roadway facilities exhibiting the most severe safety needs based on crash severity and frequency/exposure or the predictive method. Through the RIDOT's HSIP, ALL public roads are addressed, focusing on fatal and serious injury crashes in line with their SHSP and the performance measures set forth in MAP-21 and the FAST Act. Most of the State-owned roadway network and some of the local roadways are mapped to a Linear Referencing System; however, the majority of the local roadways is not referenced and is manually reviewed to ensure their inclusion into the HSIP process.

As part of RIDOT's STEP program, all roadways statewide have been assigned a priority score based on 20 attributes. RIDOT plans on expanding its other systemic program inventory to local roads in the coming years.

As part of RIDOT's Horizontal Curve Program, all roadways will be reviewed for conformance.

Diagnosis and Implementation

The RIDOT works with municipalities to identify and mitigate crash issues on locally-maintained roadways. RIDOT has developed a process for locals to request a safety improvement with the intent for locals to perform the "planning" step from the HSIP process. RIDOT will then determine if the improvement is eligible for HSIP funds and distribute the funds needed to the locals so they can administer the construction of the improvements.

RIDOT has worked with several municipalities on pedestrian and bicycle safety. They have developed safety action plans for multiple communities with high pedestrian activity. RIDOT has also reviewed all segments statewide and assigned a "risk" score to them. This will help RIDOT and locals prioritize safety for vulnerable road users.

Implementation

To streamline the implementation of Low Cost Safety Improvements on all state and local roads, to reduce fatalities and serious injuries, RIDOT began administering safety improvements through several ID/IQ contracts in FY2023. These contracts are funded with HSIP funds and enable RIDOT to reduce project soft costs and accelerate delivery. The RIDOT Office of Safety and RIDOT Project Management are jointly administering these contracts with the goal to accelerate implementation.

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

- Design
- Governors Highway Safety Office
- Local Aid Programs Office/Division
- Maintenance
- Operations
- Planning
- Traffic Engineering/Safety

Describe coordination with internal partners.

Traffic Safety, Planning, and Operations: RIDOT works internally with transportation planners (RIDOT internal and Statewide Planning), RIDOT GIS analysts, RIDOT safety engineers, RIDOT and OHS highway safety program coordinators and RIDOT operations staff as part of the entire HSIP process, including the identification of critical locations and the selection of appropriate countermeasures/ improvements. These partners are involved in Road Safety Assessments (RSAs) that were performed at many of these locations to facilitate this multi-discipline approach.

Governors Highway Safety Office: RIDOT also houses the Office of Highway Safety where the HSIP, HSP, and SHSP are all developed in a coordinated effort focused on developing consistent safety goals. Safety initiatives are now implemented in a more integrated and multi-disciplinary manner, providing RIDOT with more flexibility to direct resources to address particular safety needs. RIDOT and OHS along with RI's Office of Performance Management coordinated the development of performance measurement and targets for FY24.

Design (Project Management): Office of Traffic Safety also works with the Project Management sections of RIDOT in bundle safety projects whenever feasible. These discussions commence at pre-scoping and continue through scoping and final design.

Maintenance: RIDOT Maintenance forces implement the short-term improvements (signing, striping, minor signal work) identified by RIDOT Office of Safety from typical reviewed and RSAs.

Local Aid: RIDOT Office of Safety regularly coordinates with the LTAP to discuss any documented safety concerns on local roads and works together to help implement safety infrastructure improvements (incorporate into the STIP or to be performed by RIDOT Maintenance) as well as provide training opportunities for locals.

Identify which external partners are involved with HSIP planning.

- Academia/University
- FHWA
- Law Enforcement Agency
- Regional Planning Organizations (e.g. MPOs, RPOs, COGs)
- Tribal Agency

Describe coordination with external partners.

LEL and FHWA: Both agencies are involved in bi-monthly safety meetings as well as the SHSP development process. They have direct input to the safety decisions the internal partners developed.

RI MPO: They are involved in the TIP process (specifically for safety projects) as well as the SHSP development process. Other MPO studies, such as the Bicycle Mobility Plan, Transit Master Plan, Long Range Transportation Plan, and Congestion Management Plan, are incorporated in the HSIP planning process where applicable.

Tribal: RIDOT address all public roads, including tribal agency roadways. Crashes on locally and tribal owned roadways are included in the network screening process. Any safety improvements necessary based on prioritization are coordinated with these agencies. Tribal agencies are included in the SHSP planning process and are stakeholders on the SHSP steering committee.

Universities: RIDOT Office of Safety works with URI to help fine-tune the HSIP network screening process, including development of state-specific SPFs.

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

RIDOT have expanded their systemic system to signalized intersections to join STEP and horizontal curves. The final sub program to have a systemic analysis performed to drive safety decisions is lane departure crashes along tangent segments. This is expected to be finalized in FY24.

Program Methodology

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

Yes

A revision to the program manual is slated for 2024 with the addition of state-specific SPFs and CMFs and expanded info on systemic programs. This is currently underway and will be provided when final.

Select the programs that are administered under the HSIP.

- Horizontal Curve
- HRRR
- Right Angle Crash
- Roadway Departure
- Safe Corridor
- Wrong Way Driving
- Other-Vulnerable Road Users

Program: Horizontal Curve

Date of Program Methodology:8/1/2023

What is the justification for this program?

- Addresses SHSP priority or emphasis area
- FHWA focused approach to safety

What is the funding approach for this program?

Funding set-aside

What data types were used in the program methodology?

Crashes

- Fatal and serious injury crashes only

Exposure

- Traffic
- Volume
- Lane miles

Roadway

- Horizontal curvature
- Functional classification
- Roadside features

What project identification methodology was used for this program?

- Other-Probability of
- 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

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

Other-Systemic Risk Score:75

Other-Number of K & A:25

Program: HRRR

Date of Program Methodology:8/1/2023

What is the justification for this program?

- Addresses SHSP priority or emphasis area
- FHWA focused approach to safety
- Other-HRRR Special Rule

What is the funding approach for this program?

Funding set-aside

What data types were used in the program methodology?

Crashes

- Other-K,A,B injury crashes

Exposure

- Traffic
- Volume

Roadway

- Horizontal curvature
- Functional classification
- Roadside features

What project identification methodology was used for this program?

- Crash rate

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

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).

Relative Weight in Scoring

Ranking based on B/C:40

Available funding:20

Other-Systemic Risk Score:40

Total Relative Weight:100

Program: Right Angle Crash

Date of Program Methodology:8/1/2023

What is the justification for this program?

- Addresses SHSP priority or emphasis area
- FHWA focused approach to safety

What is the funding approach for this program?

Funding set-aside

What data types were used in the program methodology?

Crashes	Exposure	Roadway
<ul style="list-style-type: none">• Fatal and serious injury crashes only	<ul style="list-style-type: none">• Volume• Lane miles	

What project identification methodology was used for this program?

- 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

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).

Relative Weight in Scoring

Ranking based on B/C:15

Other-Reduction in fatalities and injuries:15

Other-Systemic Risk Score:70

Total Relative Weight:100

Program: Roadway Departure

Date of Program Methodology:8/1/2023

What is the justification for this program?

- Addresses SHSP priority or emphasis area
- FHWA focused approach to safety

What is the funding approach for this program?

Funding set-aside

What data types were used in the program methodology?

Crashes

- All crashes
- Fatal and serious injury crashes only

Exposure

- Volume

Roadway

- Median width
- Horizontal curvature
- Functional classification
- Roadside features
- Other-Roadway width
- Other-Clear Zone

What project identification methodology was used for this program?

- Excess expected crash frequency with the EB adjustment
- Other-Crash frequency - Fatal and serious crashes only
- Other-Facility risk factors/similar geometric types
- Relative severity index

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

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).

Relative Weight in Scoring

Ranking based on B/C:15

Other-Reduction in fatalities and injuries:15

Other-Systemic Risk Score:70

Total Relative Weight:100

Program: Safe Corridor

Date of Program Methodology:8/1/2023

What is the justification for this program?

- Addresses SHSP priority or emphasis area
- FHWA focused approach to safety

What is the funding approach for this program?

Funding set-aside

What data types were used in the program methodology?

Crashes

- All crashes
- Fatal and serious injury crashes only

Exposure

- Traffic
- Volume
- Other-Transit

Roadway

- Functional classification
- Roadside features
- Other-# Of Lanes

What project identification methodology was used for this program?

- Other-Crash frequency - fatal and serious injury crashes only
- Other-Facility risk factors/similar geometric types
- Relative severity index

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

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).

Relative Weight in Scoring

Ranking based on B/C:15

Other-Reduction in fatalities and serious injuries:15

Other-Systemic Risk Score:70

Total Relative Weight:100

Program: Wrong Way Driving

Date of Program Methodology:

What is the justification for this program?

What is the funding approach for this program?

What data types were used in the program methodology?

Crashes

Exposure

Roadway

What project identification methodology was used for this program?

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

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

How are projects under this program advanced for implementation?

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

Program: Other-Vulnerable Road Users

Date of Program Methodology: 8/1/2023

What is the justification for this program?

- Addresses SHSP priority or emphasis area
- FHWA focused approach to safety

What is the funding approach for this program?

Funding set-aside

What data types were used in the program methodology?

Crashes

- All crashes
- Fatal and serious injury crashes only

Exposure

- Traffic
- Volume

Roadway

- Functional classification
- Other-Roadway width

What project identification methodology was used for this program?

- Crash frequency
- Other-Facility risk/similar type geometrics

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

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).

Relative Weight in Scoring

Ranking based on B/C:15

Other-Systemic Risk Score:85

Total Relative Weight:100

What percentage of HSIP funds address systemic improvements?

75

HSIP funds are used to address which of the following systemic improvements?

- Add/Upgrade/Modify/Remove Traffic Signal
- Clear Zone Improvements
- High friction surface treatment
- Horizontal curve signs
- Install/Improve Pavement Marking and/or Delineation
- Install/Improve Signing
- Pavement/Shoulder Widening
- Upgrade Guard Rails

What process is used to identify potential countermeasures?

- Crash data analysis
- Data-driven safety analysis tools (HSM, CMF Clearinghouse, SafetyAnalyst, usRAP)
- Engineering Study
- Road Safety Assessment
- SHSP/Local road safety plan
- Stakeholder input
- Other-Crash Modification Clearinghouse
- Other-NCHRP Report 500 Series

Does the State HSIP consider connected vehicles and ITS technologies?

Yes

Describe how the State HSIP considers connected vehicles and ITS technologies.

RIDOT has created a working Connected/Autonomous Vehicle (CAV) group made up of various departments with RIDOT including Traffic Safety. RIDOT is exploring CAV and its impact to safety.

Safety data is being reviewed by the Traffic Safety Section and is discussed as part of the upcoming newly developed SHSP CAV Emphasis Area as part of RIDOT's SHSP 5 year update.

RIDOT has placeholders in the TIP for CAV projects related to safety.

All new traffic signals are CAV (V2I) ready.

RIDOT has implemented an over-height detection system for bridge strikes which incorporates CAV and it was installed in FY23.

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RIDOT is exploring pilot programs to incorporate CAV such as automatic horizontal curve detection system and Wrong Way Driving.

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.

RIDOT refers to the HSM methodologies on all aspects of safety where possible, including in the network screening, diagnosis, countermeasure selection, prioritization, and safety effectiveness evaluation categories. Please see attached HSIP Program Manual for more information (please note that this is currently being updated). RIDOT also utilizes other methodologies such as crash rates and systemic risk-based approaches when the HSM cannot be referenced.

RIDOT has developed two state specific CMFs (Road Diets, and Horizontal Curves). RIDOT is currently working on developing a state specific CMF for High Friction Surface Treatment which is anticipated to be finalized in FY24.

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

RIDOT encourages using the predictive method to use a more sound, data-driven approach to allocating resources that results in fewer fatalities and serious injuries on the nation's roadways. The predictive method (Excess expected crash frequency using SPFs, EB adjustment,) combines crash, roadway inventory and traffic volume data to provide more reliable estimates of an existing or proposed roadway's expected safety performance, such as crash frequency and severity. To achieve this goal, RIDOT undertook a large data collection effort to obtain all of the Model Inventory of Roadway Data Elements (MIRE) on all roadways in RI, which included roadway, traffic, and other data needed to assist the RIDOT make the most efficient decisions where to allocate safety funds and resources. The RIDOT also is working on developing a data maintenance effort to ensure all data collected is updated on a timely basis. RIDOT has begun using the predictive method for some rural segment and will continue to expand in the coming years. RIDOT has also used this data to expand their systemic programs using risk based analysis.

RIDOT has also advanced a systemic, risk based analysis for horizontal curves and is currently collecting data to advance signalized intersection and roadway departure systemic programs in FY23-24.

RIDOT is expanding its systemic program in the next few years, including creating a detailed risk based analysis and process. RIDOT has automated this process by developing a tool that resided on a GIS platform for 2 programs (horizontal curves and STEP). The network screening portion of the tool automates the site-specific and systemic identification process which is currently performed manually. For site-specific analysis, the tool will use state-specific SPF equations for all facility types, addressing the predictive analysis requirements. The tool will provide a list of locations ranked by Excess Excepted Crash Frequency (Expected Crashes – Predicted Crashes). The systemic analysis will use allow the user to identify potential trends (geometry, traffic volumes) that have a higher occurrence of fatal and serious injury crashes in RI using the crash and MIRE data incorporated into the tool. Once the potential trends (aka risk factors) are identified, the tool will identify locations that have similar trends which could lead to fatal or serious injury crashes. The user can assign a weighted "point" system for each trend to help prioritize locations based on severity or number of trends at a given site. This allows the tool to provide the user with a "ranked" list of risk-based locations

RIDOT also has its own HSIP Program Manual. The purpose of this document is to describe RIDOT's processes for planning, implementing, and evaluating HSIP funded improvements and to describe its relationship to other safety initiatives found in Rhode Island's SHSP. This document not only helps Rhode

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Island to demonstrate their own successes, but also serves as a mechanism for other states to achieve improved highway safety.

Project Implementation

Funds Programmed

Reporting period for HSIP funding.

Federal Fiscal Year

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

FUNDING CATEGORY	PROGRAMMED	OBLIGATED	% OBLIGATED/PROGRAMMED
HSIP (23 U.S.C. 148)	\$13,377,618	\$13,377,618	100%
HRRR Special Rule (23 U.S.C. 148(g)(1))	\$900,000	\$900,000	100%
VRU Safety Special Rule (23 U.S.C. 148(g)(3))	\$2,566,675	\$2,566,675	100%
Penalty Funds (23 U.S.C. 154)	\$0	\$0	0%
Penalty Funds (23 U.S.C. 164)	\$3,004,650	\$3,004,650	100%
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	\$19,848,943	\$19,848,943	100%

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

\$1,500,000

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

\$1,500,000

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

\$2,500,000

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

\$2,500,000

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%

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

Project Delivery

Before FY23, RIDOT had two methods for project delivery: state maintenance forces and project management. In FY23, RIDOT developed and put out two ID/IQ contracts to help streamline lower cost improvements which can drive down fatalities and serious injuries quicker and show action taken to safety stakeholders.

Previously by only implemented through construction projects, it frustrated RIDOT safety partners by waiting 2-3 years for safety improvement implementation. RIDOT prioritizes implementing improvements through state maintenance forces, ID/IQ, and bundling improvements in existing construction projects, where feasible, to minimize delays for low cost and potential immediate benefit improvements.

State maintenance forces are used to install basic signing and striping. This enables RIDOT to advance low-cost safety improvements for horizontal curves, pedestrian crossings, and intersections within several months of study. The ID/IQ contracts are funded by HSIP and enable RIDOT to reduce project soft costs and accelerate project delivery for more robust lower cost improvements. The two contracts currently available are for signals (pedestrian signals, RRFBs, wheelchair ramps, etc.) and general safety (signing, striping, guardrail, high friction, wheelchair ramps, etc.). The Office of Safety will select and prioritization the locations for ID/IQ and RIDOT Project Management will administer the ID/IQ packages with the assistance of the Office of Safety with the goal to turn projects around within approximately one year from study. Any improvements that require permitting, right-of-way easements, etc. require projects to be programmed in a construction project administered by RIDOT's Project Management section. The construction project improvement include new traffic signals, roadway widening, and roundabouts.

Stakeholder Outreach

Engage safety stakeholders in a discussion about program needs and potential solutions. Consider talking to Highway Safety Office, the MPO, and local agencies. RIDOT works internally with transportation planners (Statewide Planning), RIDOT GIS analysts, RIDOT safety engineers, RIDOT Planners, RIDOT and OHS highway safety program coordinators and RIDOT operations staff as part of the entire HSIP process, including the identification of critical locations and the selection of appropriate countermeasures/ improvements. These partners are involved in Road Safety Assessments (RSAs) that were performed at many of these locations to facilitate this multi-discipline approach. RIDOT also houses the Office of Highway Safety where the HSIP, HSP, and SHSP are all developed in a coordinated effort focused on developing consistent safety goals. Safety initiatives are now implemented in a more integrated and multi-disciplinary manner, providing RIDOT with more flexibility to direct resources to address particular safety needs. As part of the FAST Act, the RIDOT and OHS along with RI's Office of Performance Management coordinated the development of performance measurement and targets. RIDOT has issues maintaining local support for safety projects. Often, over the project development period, local leadership changes and can undermine the final delivery of the project. As previously discussed, with the implementing of the ID/IQ contracts, RIDOT expects a turnaround time within one year from study. This will avoid most of the conflict of local leadership turnover.

General Listing of Projects

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

PROJECT NAME	IMPROVEMENT CATEGORY	SUBCATEGORY	OUTPUTS	OUTPUT TYPE	HSIP PROJECT COST(\$)	TOTAL PROJECT COST(\$)	FUNDING CATEGORY	LAND USE/AREA TYPE	FUNCTIONAL CLASSIFICATION	AADT	SPEED	OWNERSHIP	METHOD FOR SITE SELECTION	SHSP EMPHASIS AREA	SHSP STRATEGY
IDIQ - Traffic Safety Improvements - Statewide, Task Order 1	Roadside	Barrier- metal	1.5	Miles	\$900000	\$900000	HRRR Special Rule (23 U.S.C. 148(g)(1))	Rural	Multiple/Varies	1,500	35	Multiple/Varies	Systemic	Roadway Departure	Lane Departure
On-Call Traffic Safety Engineering Task Order Program	Miscellaneous	Miscellaneous - other	1	Contract/Consultant	\$400000	\$400000	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	N/A	N/A	N/A	N/A
Statewide HSIP - Crosswalk & Signal Improvements	Pedestrians and bicyclists	Pedestrians and bicyclists - other	10	Crosswalks	\$86120	\$86120	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Urban	Multiple/Varies	15,000	30	State Highway Agency	Spot	Pedestrians	Angle, STEP
HSIP - Signalization of Allens Avenue - Contract 5	Pedestrians and bicyclists	On road bicycle lane	1	Miles	\$466185	\$466185	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	20,000	35	State Highway Agency	Spot	Pedestrians	Lane Departure, STEP
HSIP - Intersection Safety Improvements - US Route 6	Roadside	Barrier- metal	1	Miles	\$466760	\$466760	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	25,000	40	State Highway Agency	Systemic	Roadway Departure	Lane Departure
Statewide HSIP Crosswalk & Sign Enhancements	Pedestrians and bicyclists	Pedestrians and bicyclists - other	7	Intersections	\$316500	\$316500	HSIP (23 U.S.C. 148)	Urban	Multiple/Varies	20,000	30	State Highway Agency	Spot	Pedestrians	STEP
On-Call Highway Safety Improvement Program and Strategic Highway Safety Plan Consultant Services	Miscellaneous	Transportation safety planning	2	Contract/Consultant	\$1700000	\$1700000	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	N/A	N/A	N/A	Data

2023 Rhode Island Highway Safety Improvement Program

PROJECT NAME	IMPROVEMENT CATEGORY	SUBCATEGORY	OUTPUTS	OUTPUT TYPE	HSIP PROJECT COST(\$)	TOTAL PROJECT COST(\$)	FUNDING CATEGORY	LAND USE/AREA TYPE	FUNCTIONAL CLASSIFICATION	AADT	SPEED	OWNERSHIP	METHOD FOR SITE SELECTION	SHSP EMPHASIS AREA	SHSP STRATEGY
HSIP Intersection and Crosswalk Improvements East Bay - 2021	Pedestrians and bicyclists	Rapid Rectangular Flashing Beacons (RRFB)	6	Intersections	\$0	\$0	HSIP (23 U.S.C. 148)	Urban	Multiple/Varies	25,000	35	State Highway Agency	Spot	Pedestrians	STEP
2022 Statewide Crosswalk and Intersection Improvements - HSIP, North & Central	Pedestrians and bicyclists	Pedestrians and bicyclists - other	13	Intersections	\$672500	\$672500	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	20,000	35	State Highway Agency	Systemic	Pedestrians	STEP
Statewide Systemic Safety Improvements	Roadway	Pavement surface - high friction surface	20	Curves	\$716200	\$716200	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	25,000	30	Multiple/Varies	Systemic	Roadway Departure	Lane Departure, STEP
2023 Statewide HSIP Crosswalk & Intersection Improvements	Intersection traffic control	Modify traffic signal - modernization/replacement	6	Intersections	\$3671000	\$3671000	Penalty Funds (23 U.S.C. 164)	Urban	Multiple/Varies	25,000	35	State Highway Agency	Spot	Intersections	Angle
IDIQ Traffic Signal Improvements	Pedestrians and bicyclists	Pedestrians and bicyclists - other	14	Intersections	\$900000	\$900000	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	20,000	30	Multiple/Varies	Systemic	Pedestrians	STEP
IDIQ - Traffic Safety Improvements - Statewide, Task Order 2	Pedestrians and bicyclists	Pedestrians and bicyclists - other	12	Intersections	\$900000	\$900000	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	15,000	30	Multiple/Varies	Systemic	Pedestrians	STEP
US Route 1 Resurfacing	Roadside	Barrier- metal	3	Miles	\$6000000	\$6000000	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other Freeways & Expressways	13,000	50	State Highway Agency	Systemic	Roadway Departure	Lane Departure
On-Call Highway Safety Improvement Program and Strategic Highway Safety Plan Consultant Services	Miscellaneous	Transportation safety planning	6	Contractor/Consultant	\$3671000	\$3671000	Penalty Funds (23 U.S.C. 164)	N/A	N/A	25,000	35		Spot	Data	Angle

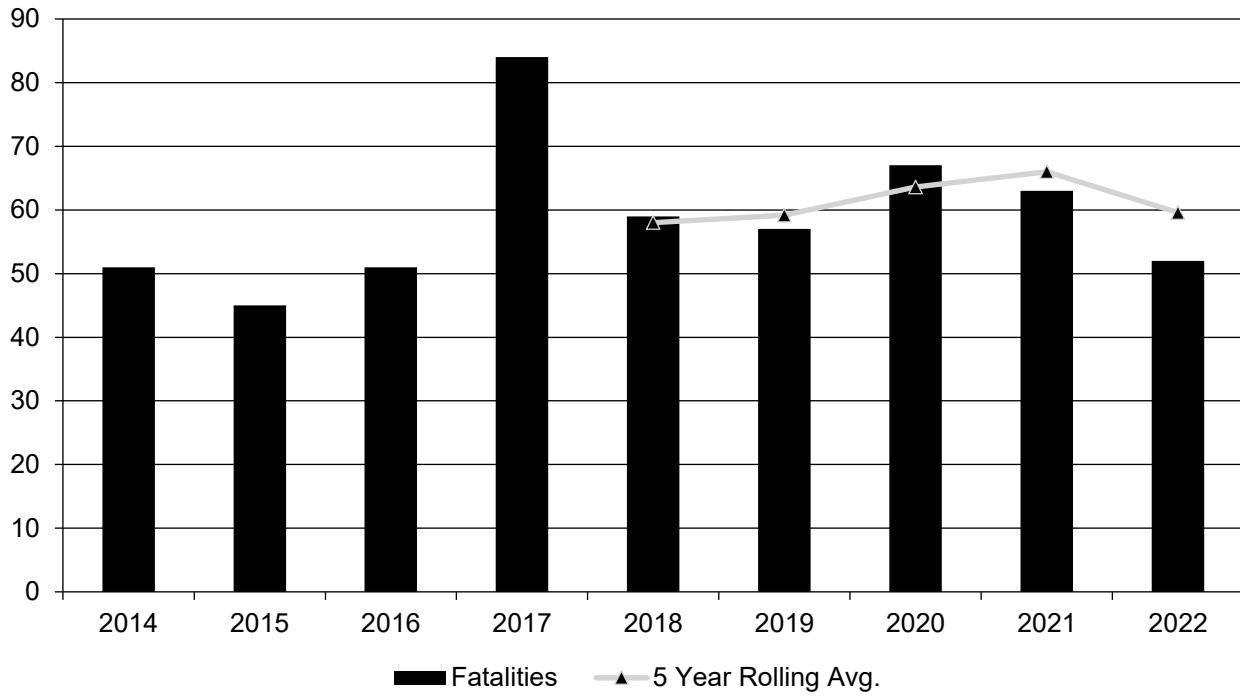
Safety Performance

General Highway Safety Trends

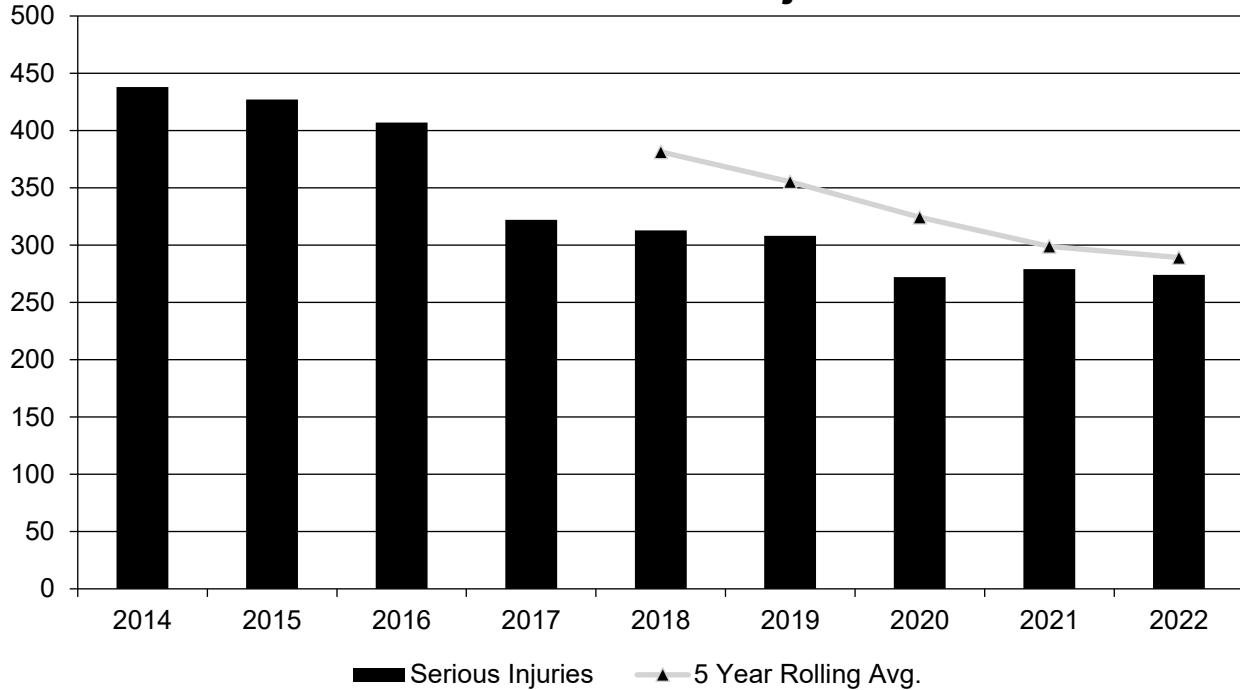
Present data showing the general highway safety trends in the State for the past five years.

PERFORMANCE MEASURES	2014	2015	2016	2017	2018	2019	2020	2021	2022
Fatalities	51	45	51	84	59	57	67	63	52
Serious Injuries	438	427	407	322	313	308	272	279	274
Fatality rate (per HMVMT)	0.660	0.570	0.640	1.050	0.734	0.743	1.020	0.790	0.691
Serious injury rate (per HMVMT)	5.705	5.451	5.108	4.024	3.908	3.837	4.150	3.699	3.641
Number non-motorized fatalities	14	8	16	23	9	8	19	9	7
Number of non-serious motorized injuries	75	80	57	74	52	63	64	59	53

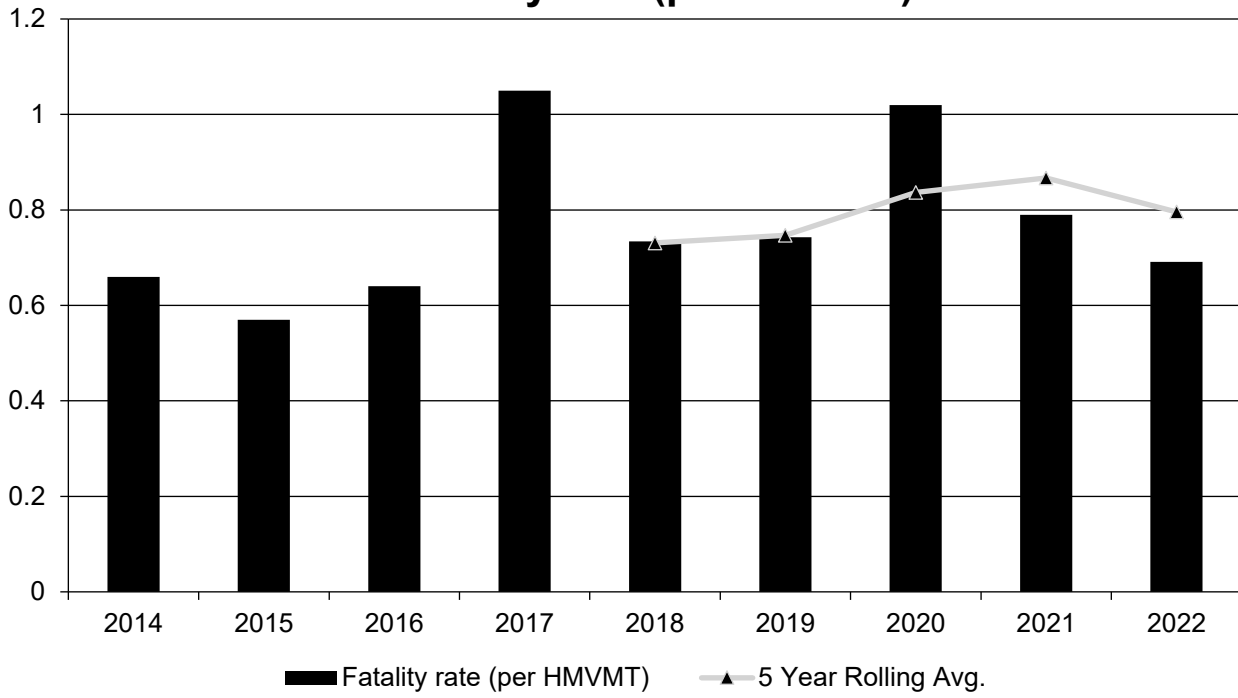
Annual Fatalities



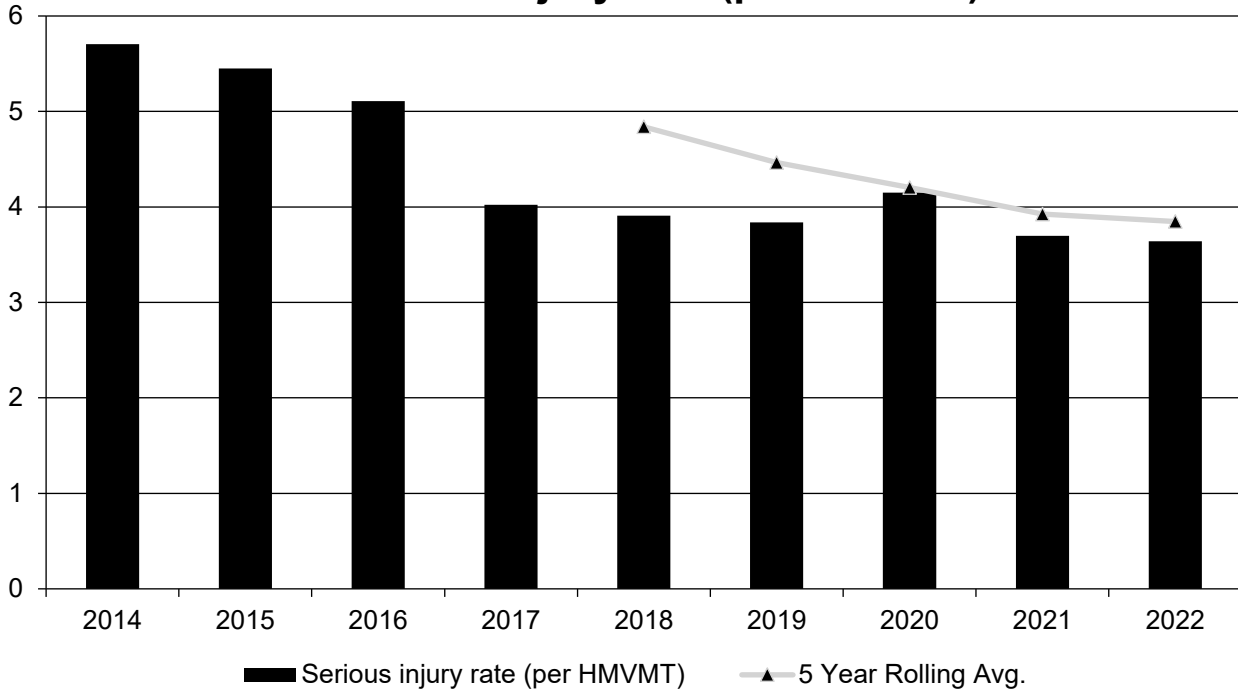
Annual Serious Injuries



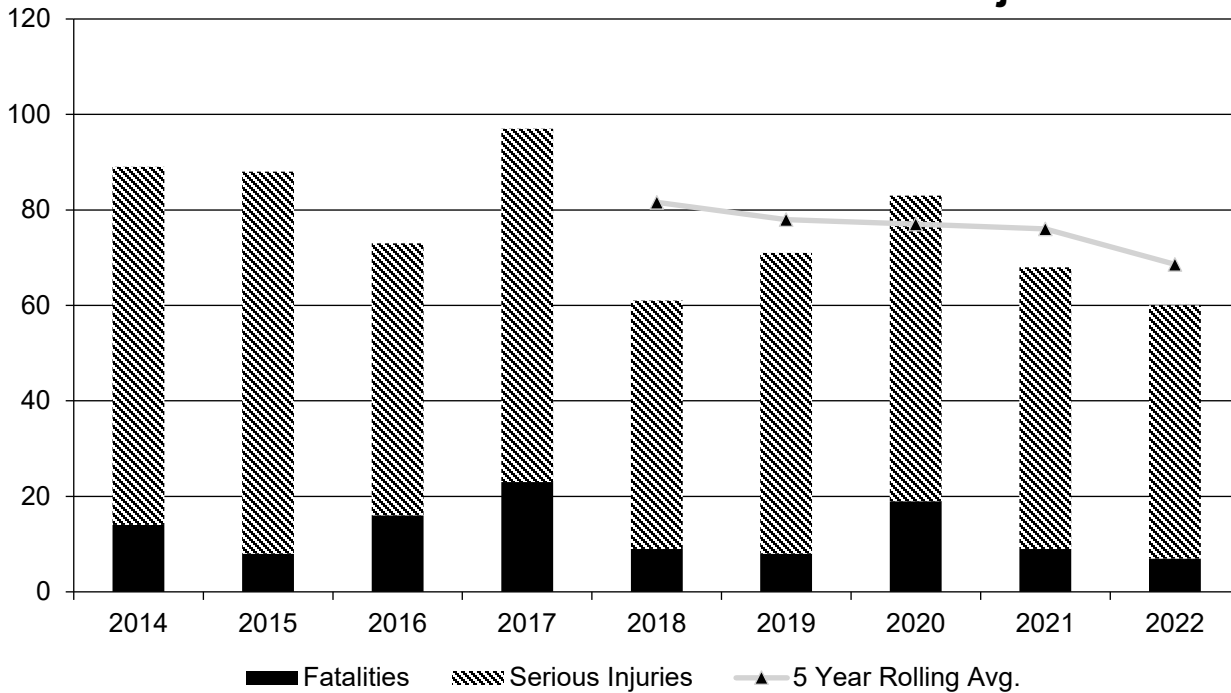
Fatality rate (per HMVMT)



Serious injury rate (per HMVMT)



Non Motorized Fatalities and Serious Injuries



Describe fatality data source.

FARS

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

Year 2022

Functional Classification	Number of Fatalities (5-yr avg)	Number of Serious Injuries (5-yr avg)	Fatality Rate (per HMVMT) (5-yr avg)	Serious Injury Rate (per HMVMT) (5-yr avg)
Rural Principal Arterial (RPA) - Interstate			0.73	0.66
Rural Principal Arterial (RPA) - Other Freeways and Expressways		2.2	1.83	3.87
Rural Principal Arterial (RPA) - Other	3.6		1.5	1.85
Rural Minor Arterial	2	5.2	1.77	4.7
Rural Minor Collector			0.28	14.84
Rural Major Collector	1.6	8.8	1.79	11.63

2023 Rhode Island Highway Safety Improvement Program

Functional Classification	Number of Fatalities (5-yr avg)	Number of Serious Injuries (5-yr avg)	Fatality Rate (per HMVMT) (5-yr avg)	Serious Injury Rate (per HMVMT) (5-yr avg)
Rural Local Road or Street		5.6	7.57	26.24
Urban Principal Arterial (UPA) - Interstate	8.6	15.2	0.46	0.81
Urban Principal Arterial (UPA) - Other Freeways and Expressways	3.8	14	0.34	1.31
Urban Principal Arterial (UPA) - Other	13.8	63.4	0.75	3.47
Urban Minor Arterial	8.2	60.6	0.8	5.89
Urban Minor Collector			2.29	45.29
Urban Major Collector	5.8	48	0.98	8.13
Urban Local Road or Street	2.8	41.4	0.73	10.83

2023 Rhode Island Highway Safety Improvement Program

Year 2022

Roadways	Number of Fatalities (5-yr avg)	Number of Serious Injuries (5-yr avg)	Fatality Rate (per HMVMT) (5-yr avg)	Serious Injury Rate (per HMVMT) (5-yr avg)
State Highway Agency	40.2	143.8		
County Highway Agency				
Town or Township Highway Agency	8.6	54.4		
City or Municipal Highway Agency				
State Park, Forest, or Reservation Agency				
Local Park, Forest or Reservation Agency				
Other State Agency				
Other Local Agency				
Private (Other than Railroad)				
Railroad				
State Toll Authority				
Local Toll Authority				
Other Public Instrumentality (e.g. Airport, School, University)				
Indian Tribe Nation				

Safety Performance Targets

Safety Performance Targets

Calendar Year 2024 Targets *

Number of Fatalities:59.6

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

2023 Rhode Island Highway Safety Improvement Program

Unfortunately, Rhode Island is in the midst of a sharp increase in fatalities in 2023. As such, Rhode Island does not think it is realistic to achieve a 2024 target lower than baseline. To achieve a maintain target, Rhode Island is expected to achieve a fatality total in the 40s in 2024, only achieved once in the last two decades.

Number of Serious Injuries:280.0

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

Rhode Island has continued to see a decline in serious injuries and has set a target of continuing this decline.

Fatality Rate:0.788

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

This fatality rate assumes constant VMT and the fatalities required to meet the 2024 target. This combination reduces the fatality rate as a result of planned safety projects.

Serious Injury Rate:3.675

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

Rhode Island has continued to see a decline in serious injuries and has set a target of continuing this decline. This decline will also produce a reduction in the rate of serious injuries.

Total Number of Non-Motorized Fatalities and Serious Injuries:68.0

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

Rhode Island has experienced notable fluctuations in non-motorist fatalities and serious injuries. However, recent years have pointed towards small, steady reductions in these injuries.

Attached is the FFY 2024 Safety Performance Measure Target Setting Memo.

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

RIDOT Safety, Office of Highway Safety, Office of Performance Management, FHWA, and Statewide Planning are all involved in the target setting process. Other safety stakeholders, such as AAA, Growth Smart RI, etc., are also involved to some extent. See attached memo that details the 2024 target setting process.

Does the State want to report additional optional targets?

No

Describe progress toward meeting the State's 2022 Safety Performance Targets (based on data available at the time of reporting). For each target, include a discussion of any reasons for differences in the actual outcomes and targets.

PERFORMANCE MEASURES	TARGETS	ACTUALS
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2023 Rhode Island Highway Safety Improvement Program

Number of Fatalities	67.0	59.6
Number of Serious Injuries	292.0	289.2
Fatality Rate	0.880	0.796
Serious Injury Rate	3.785	3.847
Non-Motorized Fatalities and Serious Injuries	75.0	68.6

The preliminary totals for Rhode Island’s 2022 safety performance measures are 60 fatalities, 289 serious injuries, and 69 non-motorized fatalities and serious injuries. According to FHWA Highway Performance Monitoring System (HPMS) monthly reports, the total VMT for 2022 results in rates of 0.79 fatalities and 3.85 serious injuries per hundred million VMT.

Based on this info, Rhode Island will meet 4 of 5 of the State’s 5 safety performance targets. Rhode Island does not anticipate any transfers from HSIP.

The spike in fatalities in 2020 impacted the Fatal, Fatal Rate, and partially effected the Non-Motorized performance measures. However in 2022, the downward trend have have seen the past 10 years have resumed.

Applicability of Special Rules

Does the VRU Safety Special Rule apply to the State for this reporting period?

Yes

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

Yes

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	2016	2017	2018	2019	2020	2021	2022
Number of Older Driver and Pedestrian Fatalities	5	16	12	8	10	8	8
Number of Older Driver and Pedestrian Serious Injuries	42	50	40	45	46	35	39

Evaluation

Program Effectiveness

How does the State measure effectiveness of the HSIP?

- Change in fatalities and serious injuries
- Lives saved

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

As shown in the Progress in Achieving Safety Performance Targets section, RIDOT has seen a continuous reduction, over a 5-year average, in serious injuries.

RIDOT tracks crash reductions for all of their HSIP projects. RIDOT uses this data to make changes to a specific improvements if desired results are not achieved.

We have seen reductions in the systemic programs such as Pedestrians, Road Diets, Horizontal Curves, Wrong Way Driving. We have also seen direct benefits in spot projects for roadway departure and intersections. We continue to tackle the systemic programs with the goal of 100% statewide.

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

- # miles improved by HSIP
- # RSAs completed
- HSIP Obligations
- More systemic programs

HSIP obligations have increased over the past 10 years and RIDOT is projected to obligate 100% of the HSIP funds in the STIP (10-year plan).

RSAs are a driver for safety improvements and RIDOT has a streamlined process in place to conduct RSAs and implement the findings in with maintenance forces, ID/IQ contract, or bundle with capital projects.

RIDOT has expanded its HSIP to have 4 systemic sub-programs: STEP, Horizontal Curves, Signalized Intersections, and Lane Departure: Tangent Sections. RIDOT is developing an Unsignalized Intersection systemic analysis in FY24.

We fell that the shift to primarily all systemic projects will help reduce fatal and serious injury related crashes proactively statewide.

Effectiveness of Groupings or Similar Types of Improvements

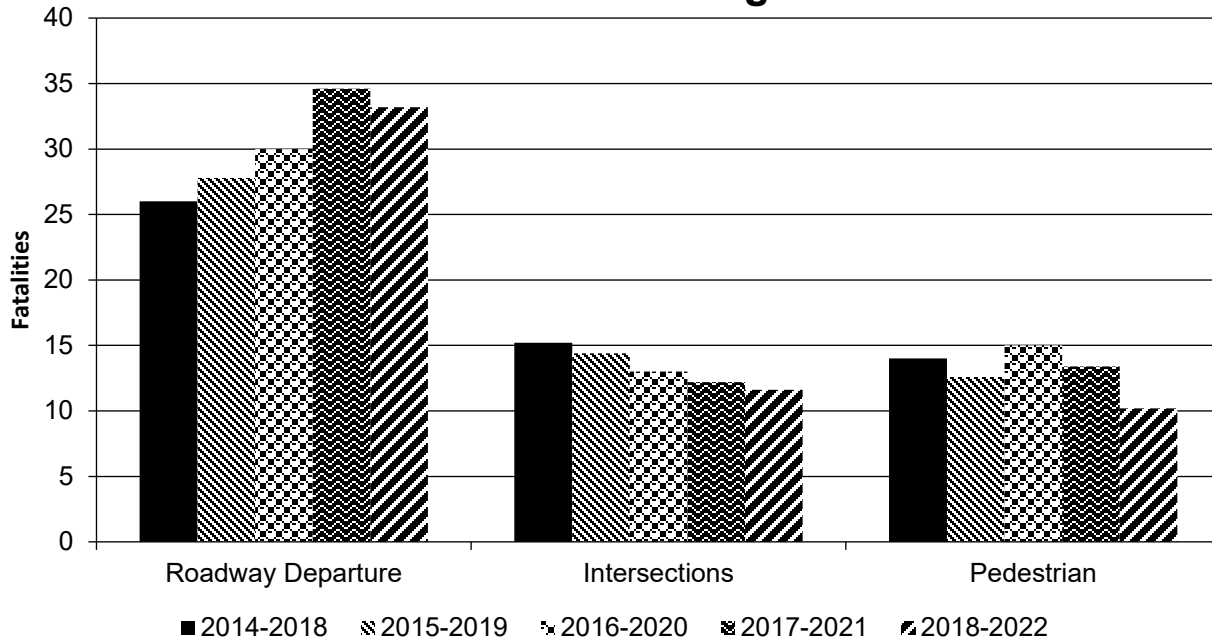
Present and describe trends in SHSP emphasis area performance measures.

Year 2022

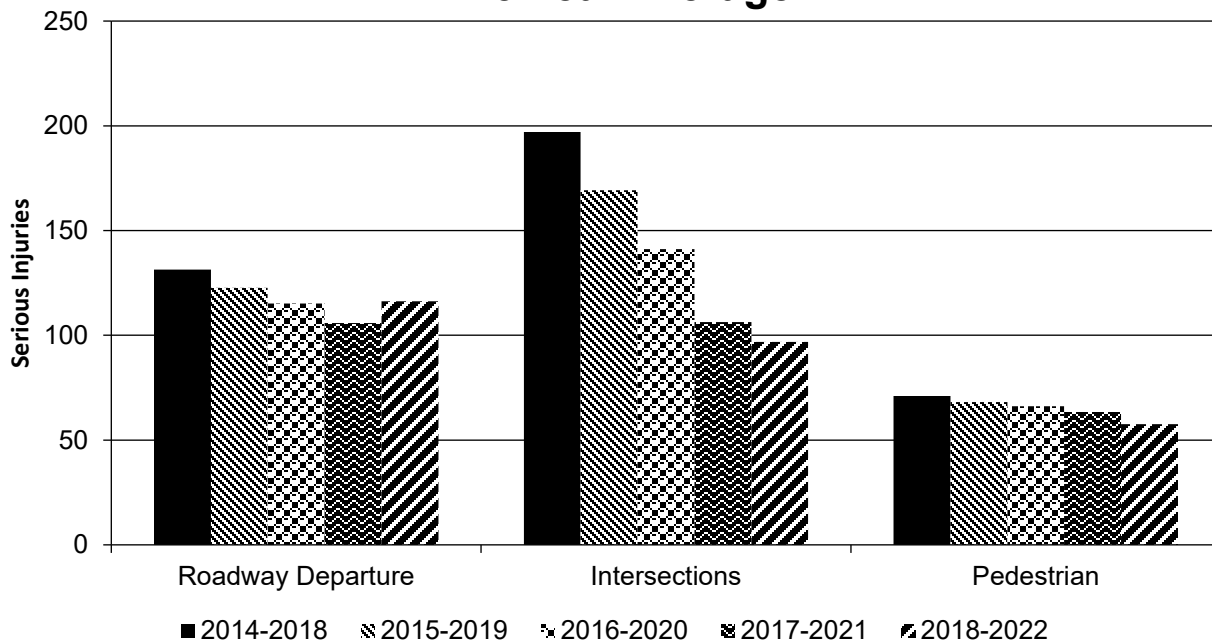
2023 Rhode Island Highway Safety Improvement Program

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		33.2	116.2	0.45	1.57
Intersections		11.6	96.8	0.15	1.31
Pedestrian		10.2	57.6	0.14	0.79

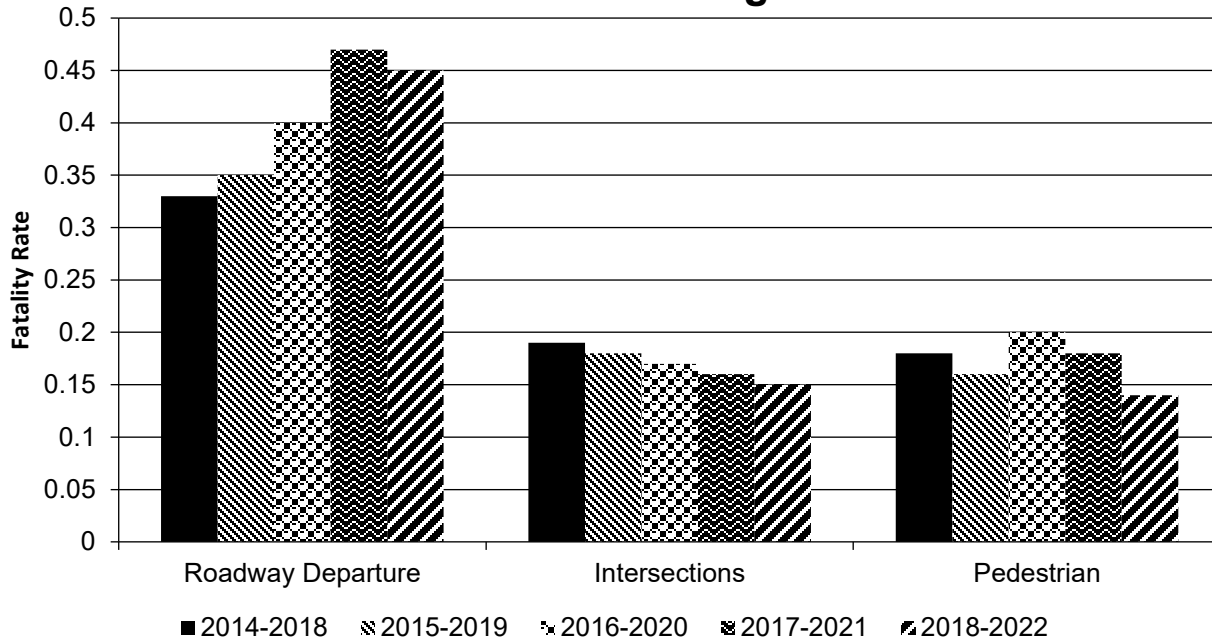
Number of Fatalities 5 Year Average



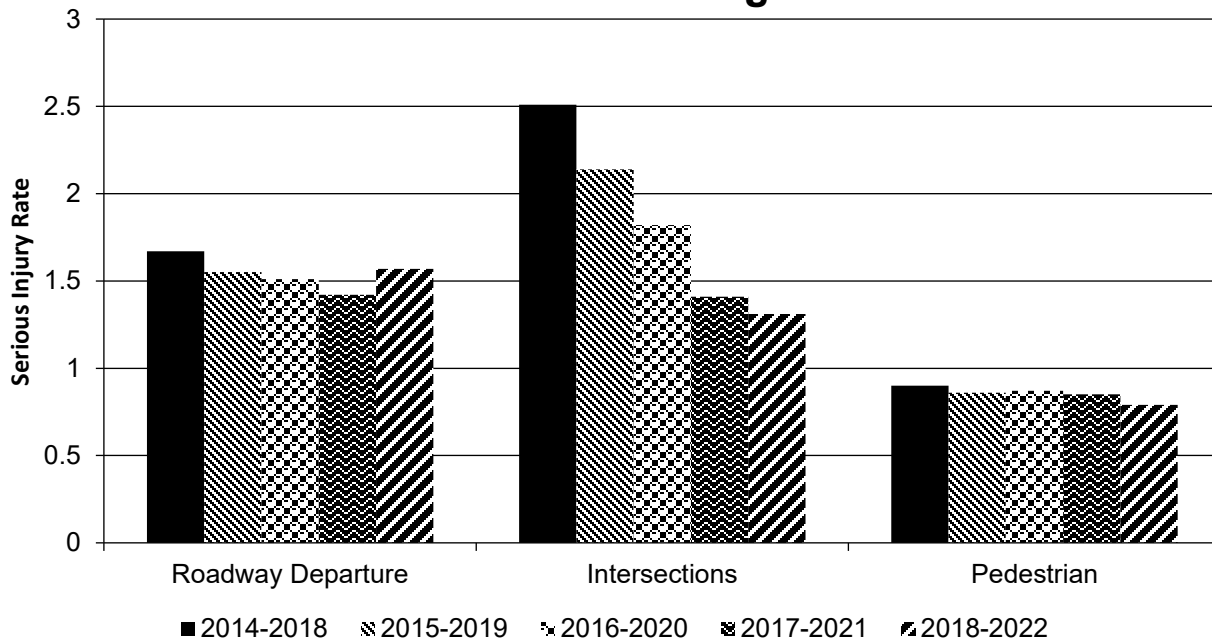
Number of Serious Injuries 5 Year Average



Fatality Rate (per HMVMT) 5 Year Average



Serious Injury Rate (per HMVMT) 5 Year Average



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

Yes

Please provide the following summary information for each countermeasure effectiveness evaluation.

CounterMeasures:	Road Diet
Description:	
Target Crash Type:	All
Number of Installations:	17
Number of Installations:	17
Miles Treated:	
Years Before:	5
Years After:	5
Methodology:	Regression cross-section
Results:	29% reduction in all crash severities; 37% reduction in fatal and injury crashes
File Name:	Final Road Diet CMF Report.pdf
CounterMeasures:	High Friction Surface Treatments
Description:	
Target Crash Type:	Run-off-road
Number of Installations:	15
Number of Installations:	15
Miles Treated:	
Years Before:	5
Years After:	5
Methodology:	Regression cross-section
Results:	50% reduction in all crash severities
File Name:	Hyperlink

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)
Statewide	Urban Principal Arterial (UPA) - Interstate	Advanced technology and ITS	Wrong-way Driving Detection System	16.00	11.00	3.00		6.00	4.00			25.00	15.00	5.0

Compliance Assessment

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

08/04/2022

What are the years being covered by the current SHSP?

From: 2022 To: 2027

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

2027

Attached is the official SHSP acceptance letter from FHWA to RIDOT.

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

*Based on Functional Classification (MIRE 1.0 Element Number) [MIRE 2.0 Element Number]

ROAD TYPE	*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
ROADWAY SEGMENT	Segment Identifier (12) [12]	100	100					100	100	100	100
	Route Number (8) [8]	100	100								
	Route/Street Name (9) [9]	100	65								
	Federal Aid/Route Type (21) [21]	45	10								
	Rural/Urban Designation (20) [20]	100	100					100	100		
	Surface Type (23) [24]	100	100					100	100		
	Begin Point Segment Descriptor (10) [10]	100	100					100	100	100	100
	End Point Segment Descriptor (11) [11]	100	100					100	100	100	100
	Segment Length (13) [13]	100	100								
	Direction of Inventory (18) [18]	100	100								

2023 Rhode Island Highway Safety Improvement Program

ROAD TYPE	*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
	Functional Class (19) [19]	100	100					100	100	100	100
	Median Type (54) [55]	100	100								
	Access Control (22) [23]	85	44								
	One/Two Way Operations (91) [93]	100	100								
	Number of Through Lanes (31) [32]	100	91					100	100		
	Average Annual Daily Traffic (79) [81]										
	AA DT Year (80) [82]										
	Type of Governmental Ownership (4) [4]	100	100					100	100	100	100
INTERSECTION	Unique Junction Identifier (120) [110]			100							
	Location Identifier for Road 1 Crossing Point (122) [112]			100							
	Location Identifier for Road 2 Crossing Point (123) [113]			100							
	Intersection/Junction Geometry (126) [116]			90							
	Intersection/Junction Traffic Control (131) [131]			90							
	AA DT for Each Intersecting Road (79) [81]			25							
	AA DT Year (80) [82]			50							
	Unique Approach Identifier (139) [129]			100							
INTERCHANGE/RAMP	Unique Interchange Identifier (178) [168]					100					

2023 Rhode Island Highway Safety Improvement Program

ROAD TYPE	*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
	Location Identifier for Roadway at Beginning of Ramp Terminal (197) [187]					100					
	Location Identifier for Roadway at Ending Ramp Terminal (201) [191]					100					
	Ramp Length (187) [177]					100					
	Roadway Type at Beginning of Ramp Terminal (195) [185]					100					
	Roadway Type at End Ramp Terminal (199) [189]					100					
	Interchange Type (182) [172]					100					
	Ramp AADT (191) [181]										
	Year of Ramp AADT (192) [182]										
	Functional Class (19) [19]					100	100				
	Type of Governmental Ownership (4) [4]					100	100				
Totals (Average Percent Complete):		85.00	78.33	81.88	0.00	81.82	18.18	88.89	88.89	100.00	100.00

*Based on Functional Classification (MIRE 1.0 Element Number) [MIRE 2.0 Element Number]

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.

RIDOT is applying for various grants to complete the collection by 2026. RIDOT collected most of the data in 2016 as part of the MIRE data collection effort, however local data for some elements were not collected as part of this effort due to funding. Also, traffic data is being collected under a standalone effort.

Optional Attachments

Program Structure:

HSIP Manual_May8_FINAL.pdf

Project Implementation:

Safety Performance:

Targets_2024_DRAFT_20230614.pdf

Evaluation:

Final Road Diet CMF Report.pdf

Compliance Assessment:

8-4-2022 LTR RI SHSP Process Approval Letter to Dir. Alviti.pdf

Glossary

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

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

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

HMVMT: means hundred million vehicle miles traveled.

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

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

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

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

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

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

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

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

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