OHIO

HIGHWAY SAFETY IMPROVEMENT PROGRAM

2023 ANNUAL REPORT

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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

Traffic deaths and crashes across Ohio have been rising as the statewide economy continues to improve. In 2022, Ohio had 1,275 traffic deaths and 7,570 serious injuries, representing a 5.9% decrease in fatalities and a 4.4% decrease in serious injuries compared to 2020.

Ohio's safest year in history was 2013 when the state dropped below 1,000 traffic deaths for the first time since it began collecting records in 1935. However, traffic deaths saw a 9% decrease in 2018, rose 8% in 2019, 6.4% in 2020, 10.4% in 2021, and decreased 5.9% in 2022. Although the top common factors in these crashes have long been roadway departure, speed, alcohol, seatbelts and young drivers, over the past four years the state has seen a rise in the number of deaths involving pedestrians, older and distracted drivers.

To respond to these trends, Ohio's Strategic Highway Safety Plan Steering Committee has moved from quarterly to bi-monthly meetings, and now communicates via email on a monthly basis to share crash trend information and discuss strategies and investments. The committee includes members from 15 key safety organizations operating at the local, state and federal level including: Ohio County Engineers Association (CEAO); Ohio Association of Regional Councils (OARC); Ohio Department of Public Safety (ODPS); Federal Highway Administration; Ohio State Highway Patrol; Federal Motor Carrier Safety Administration; and the American Automobile Association (AAA).**These organizations then feed the information to a network of hundreds of other stakeholders who are getting more actively involved in the SHSP.**

Below is a summary of the state's enhanced and coordinated efforts to address the increase in crashes statewide.

Ohio Launches New Resources to Address Vulnerable Roadway User Needs

ODOT Active Transportation Plan Development Guide & Template

In June of 2020, ODOT published an Active Transportation Plan Development Guide, which is a resource for local and regional planning organizations developing standalone active transportation plans in Ohio. It encompasses national best practices in active transportation planning and guides communities through a seven-step process for creating their own active transportation plans. These steps include: Engage the Community, Develop a Vision & Goals, Assess Existing Conditions, Identify Proposed Projects and Programs, Prioritize Proposed Projects, and Implementation.

The ODOT AT Plan Guide seeks to assist local governments and regional agencies to develop plans dedicated to the unique needs of vulnerable roadway users and document priority projects that can be used to inform local capital budgets, leverage state funds, or seek discretionary grants through the USDOT. Understanding and meeting the needs of people travelling on foot and bike in communities across Ohio is critical for reducing injury and fatality on our roadways. As a home rule state, it's critical for local governments to have the support, guidance and resources needed to identify projects and implement safer, more connected bicycle and pedestrian networks.

<u>ODOT Active Transportation Planning Assistance</u>

After publishing an Active Transportation Plan Development Guide in 2020, ODOT began to offer routine consultant assistance with ATP development. In 2022, 6 local governments were awarded assistance including City of Dayton, Orange Township, City of Struthers, Village of Tiltonsville, City of Lakewood, and City of Marietta. In 2023, ATP assistance was awarded to 5 additional local governments: City of Perrysburg, City of Lorain, City of Cleveland heights, City of Gahanna, and the Villages of McConnelsville and Malta.

Through utilizing consultant support, ODOT seeks to assist local governments and regional agencies to develop plans dedicated to the unique needs of vulnerable roadway users and document priority projects that can be used to inform local capital budgets, leverage state funds, or seek discretionary grants through the USDOT. Understanding and meeting the needs of people travelling on foot and bike in communities across Ohio is critical for reducing injury and fatality on our roadways. As a home rule state, it's critical for local governments to have the support, guidance and resources needed to identify projects and implement safer, more connected bicycle and pedestrian networks.

Multimodal Design Guide (MDG)

In April of 2022, ODOT published a new, comprehensive guide for the design of bicycle and pedestrian facilities as part of ODOT right-of-way and as part of the Local Let Process. By providing comprehensive state-of-the-practice design guidance, the MDG aligns with ODOT's current vision, mission, and goals related to walking and bicycling. It advances the Department's overall mission of improving safety across the state; it aligns with ODOT's Statewide Bicycle and Pedestrian Plan's vision that walking and biking will be a safe, convenient, and accessible transportation options for everyone; and it supports the Strategic Highway Safety Plan's goal of achieving zero deaths on Ohio's roadways.

Communities can apply this guidance to their local and regional transportation networks to create uniformity across the state's multimodal transportation system. The MDG will also be used by ODOT to review local agency designs for federally funded projects. The MDG can also be a reference for community members, advocates, elected officials, and other stakeholders interested in advancing multimodal transportation design practices in Ohio. The MDG provides information for planners, designers, and engineers to develop the physical infrastructure necessary to support walking and bicycling for people of all ages and abilities. This design guide includes information on developing connected bicycle and pedestrian networks and addresses topics such as comfort and safety of facilities in different contexts. This guide addresses safety-related issues, especially for interactions between vulnerable road users (e.g., pedestrians and bicyclists) and motor vehicles.

Ohio's State & US Bike Route System

Ohio is establishing a network of State and US and bicycle routes which will provide bicyclists with safe and convenient connections through and to population centers and destinations in Ohio. The system will serve as a backbone that local and regional bike networks can build on and connect to across the state. In 2019 ODOT conducted a facility inventory for bike route facilities along the 3,000 miles of State & US Bike Routes in Ohio and in 2020 used this information to analyze the Level of Traffic Stress to understand portions of the system that may need improved accommodations. Alignment with this system is incorporated into ODOT's Project Initiation Package, as an indication that bicycle accommodations should be considered. In 2021, Ohio formally designated four additional USBRs bringing the statewide total to over 1,500 miles of designated USBR and the most in the nation. In 2023, ODOT finalized signage plans for two designated US Bike Routes to provide wayfinding for riders and increase awareness for bicyclists along these routes. ODOT will work with 80 local governments to install signs by the Spring of 2024.

Active Transportation Advisory Committee

ODOT's ATAC oversees the implementation of ODOT's strategic plans related to walking and biking (SHSP, Walk.Bike.Ohio). Rebranded (from the 2017-2019*Active Transportation Team*) and initiated in 2021, ODOT's ATAC is an ongoing forum to discuss active transportation with internal and external stakeholders, coordinate activities, and inform priorities as ODOT works to implement the strategies outlined in the SHSP and Walk.Bike.Ohio Plan.

Active Transportation Academy

ODOT continues to develop and deliver trainings and workshops available through the AT Academy. The goal of this academy is to provide technical assistance to practitioners including planners, engineers, law enforcement, and their partners on bicycle and pedestrian topics. Throughout 2022, 1 personalized workshop, 1 training, and 1 statewide webinar were hosted which reached over 100 trainees. The AT Academy currently offers workshop related to Developing AT Plans, School Travel Plans, Vision Zero Action Plans, and Conducting Walk and Bike Audits. Trainings are available related to First and Last Mile Connections, Complete Streets Policies. Walking School Busses, Crossing Guard Trainings, and Girls in Gear (girl empowerment bicycle training). Trainings are offered at no cost to local partners. During the year, 3 courses were updated.

Pedestrian Safety Improvement Program

In fall 2019, ODOT launched its **Pedestrian Safety Improvement Program** using up to $10M in HSIP funds. This program provides municipalities within the state assistance and funding to systemically implement low-to-medium cost proven pedestrian safety countermeasures along high-risk facilities such as collectors and arterials. Countermeasures will include Rectangular Rapid Flashing Beacons, Pedestrian Hybrid Beacons, Refugee Islands, Curb bump outs, high-visibility crosswalk markings, among others. This program utilizes a combination of project bundling and consultant support to accelerate delivery across the state and streamline the delivery process of these proven, lifesaving countermeasures.

As of Summer 2021, 390 locations and over 2000 individual treatments were designed across the eight cities participating in this program.

Construction began April of 2021, and the final few locations are being completed this summer.

PSIP is important to Ohio because the lessons learned from this program are being used to improve the new Pedestrian Systemic Safety Application Program, which was launched as a result of PSIP in 2021.

Older Road User Action Team

Ohio’s Older Road User Action Team is in its sixth year of action plan development and implementation. The team is continuing to work on implementation of several critical strategies including: expanding the safe routes to age in place program, promoting the use and installation of roadway improvements that compensate for the impacts of aging on safe driving, increasing the knowledge of medical providers, law enforcement and licensing personnel on the recognition, assessment, and reporting of older at-risk drivers. The team is working hard to engage the Ohio Bureau of Motor Vehicles (BMV) on this issue.

In 2018, the team successfully launched the Stay Fit to Drive statewide education campaign to raise awareness for how aging can affect our ability to drive. The goal is to educate older Ohioans, families, friends and caregivers about the signs of declining safe driving skills — either due to normal aging or a medical condition; resources available to evaluate safe driving skills; and how to plan for retirement from driving. In 2019, ODOT worked with AAA, AARP, Safe Communities and Ohio Occupational Therapists to promote the campaign through CarFit Events around the state. In 2020, the Strategic Highway Safety Plan was developed with new strategies to be implemented over the next 5 years. In 2023, the Ohio Department of Public Safety hired a full-time CarFit coordinator as one of the SHSP initiates. In 2023 and 2024, collaboration will continue with partners to move these strategies forward and combat older road user crashes.

Distracted Driving Task Force

Ohio Passes New Hands-Free Law

Good news on the distracted driving front in Ohio. In January, Governor Mike DeWine signed a new hands-free law that in most cases prohibits motorists from holding or interacting with electronic devices while driving. It also makes violating the law a primary offense.

The law took effect April 4. Officers will issue warnings for a six-month period, then officers may issue citations and fines starting the first week of October.

To raise awareness for the new law, ODOT and the Ohio Department of Public Safety are spending $1M on a statewide media campaign that combines TV, radio and internet ads with billboards and other tools to educate Ohio drivers and shift their behavior.

There is evidence that Ohio's new distracted driving law is working.

Data from Cambridge Mobile Telematics shows that in the first month of the new law – Ohio experienced a 9% reduction in handheld cell phone use and screen interaction. Cambridge Mobile is the world's largest telematics provider, collecting anonymized data from millions of drivers using smart phone apps, dashcams and connected vehicle technology.

However, the challenge will be to sustain that momentum. Studies show distraction levels can regress over time without sustained enforcement and public awareness. To meet the challenge, Ohio is considering several new initiatives in 2023 – including working with Ohio employers to adopt one-touch or no-touch workplace policies for electronic devices. We will share these initiatives with FHWA and others as they are developed and launched.

HSIP Scoring to Focus on Severity and Equity

In 2022, ODOT changed the scoring process for selecting projects to focus exclusively on severity. The department has modified the minimum threshold for applications from 10 crashes over three years to three crashes per year with 30% involving a fatality or injury. In addition, points for crash severity have been increased and points for crash frequency and congestion dramatically reduced.

ODOT has also added equity components to its application process. Projects in communities with higher levels of poverty will receive more points and more assistance in providing a local match. Equity scoring will be determined using census data. These communities typically have higher rates of fatalities and serious injuries than the population at large.

New Systemic Safety Program

In January 2022, ODOT launched a new systemic safety program focused on preventing pedestrian and roadway departure fatalities and serious injuries using FHWA identified proven safety countermeasures. Project sponsors requested up to $2 million for pedestrian and $5 million for roadway departure systemic improvements. The program is meant to encourage more safety applications focused on these two crash types, which are involved in about 60% of traffic deaths in Ohio each year.

The first round yielded a total of 44 applications, selecting 31 pedestrian and 13 roadway departure project totaling $51M.

Earlier this year, we hosted the second round, which yielded an additional 41 applications. We selected 31 pedestrian and 10 roadway departure projects totaling $55M. ODOT allocated nearly $30M to systemic pedestrian safety treatments in 2022 and nearly $27M in 2023.

Abbreviated Safety Applications to Focus on Severity

ODOT is changing the threshold for its low-cost, quick-hit abbreviated safety application process to focus exclusively on crashes with severity. Sponsors can submit applications for safety improvements that are $500,000 or less and construction only. ODOT will review the applications once every quarter.

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.

ODOT has established the Highway Safety Improvement Program to create a process which emphasizes safety of the traveling public by analyzing the crash statistics on Ohio's state and local highway system. In 2022, the Department utilized AASHTOWare Safety Analyst to identify intersections and highway sections with the potential for safety improvement. Each of the 12 District Safety Review Teams (DSRT) reviews these prioritized locations as part of a Safety Annual Work Plan (SAWP) and accepts the plan. In addition, the Districts perform safety studies to determine the contributing factors related to crashes at the locations. The DSRT strives to identify crash patterns and recommend countermeasures to reduce the severity and long-term average frequency of crashes.

Safety projects are not limited to the state highway system. Proposed local projects on public roads are also evaluated and prioritized to improve safety as outlined in the application and selection process. These projects are reviewed and approved by the DSRT.

Upon recommendation from the District Safety Review Teams, eligible projects are submitted to ODOT Central Office for funding consideration, and evaluated and prioritized based on uniform and objective criteria. Projects which contribute most to improving safety and reducing the severity and long-term average frequency of crashes are considered for funding and further development. Twice a year, a listing of all newly approved safety projects is produced.

The Highway Safety Improvement Program historically receives approximately $185 million annually of combined Federal and State funding. The actual level of funding designated for the program is determined by the Funds Management Committee and the Director, and is contingent on available state and federal revenues. The funding is used to implement countermeasures at identified crash locations on Ohio's roadways to ensure safety is the primary consideration in the design, development, and operation of this program.

Where is HSIP staff located within the State DOT?

Planning

How are HSIP funds allocated in a State?

- Central Office via Statewide Competitive Application Process
- Other-Direct Sub-Allocation to CEAO
- Other-Pedestrian Safety Improvement Program
- Other-Ohio Township Sign Grant Program

- Other-Governor's Intersection Safety Program
- Other-Systemic Safety Improvements

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

6. Addressing Local Road Safety

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

Local governments can qualify for funding and technical assistance to address SHSP emphasis areas and prioritized safety locations through the HSIP programs administered by ODOT ($185M annually), the County Engineers Association ($14.2M annually) and the Ohio Local Technical Assistance Program (LTAP) ($2M).

Local Road Safety Initiative
To encourage local governments to apply for these funds and overcome capacity constraints at the local level, in 2018 ODOT's Highway Safety Program launched its Local Safety Assistance program. This program provides local governments and metropolitan planning organizations in the state the technical assistance and consultant support necessary for developing County and Regional Safety Plans, conducting safety studies/road safety audits, and developing systemic safety improvement projects

- **County & Regional Safety Plans** are helping local agencies identify and understand the safety issues occurring within their communities. They are helping identify priority safety locations to target investments and they are outlining robust multi-disciplinary action plans aimed at addressing severe crashes and reducing fatalities and identify available resources for implementation. ODOT's Local Safety Assistance Program is providing technical assistance to local agencies to complete plans in their respective region/county, and is also working on creating templates and tools for agencies to easily create their own scalable plans.
- **Safety Studies and Road Safety Audits** are almost always required to apply for HSIP funds within Ohio. Through ODOT's Local Safety Assistance Program, local agencies are provided with technical assistance to complete the studies necessary to apply for HSIP funds at no cost to them.
- **Systemic Safety Project Development** can be a challenge at the local level, whether that's conducting a systemic analysis to managing the construction process. ODOT's Highway Safety Program provides technical assistance on the development of these projects and is working to streamline the project delivery process.

CEAO Safety Program
ODOT also works with the Ohio County Engineers Association to administer a separate safety program ($14.2 million of HSIP funds) dedicated to making improvements on county-maintained roads. This funding can be used to make spot and systemic improvements tied to the SHSP. Applications are accepted once a year by CEAO and scored using criteria developed in conjunction with ODOT.

CEAO subdivides the $14.2 million in to several smaller funding categories. Each county is permitted to program eligible construction projects up to $5 million overall for spot safety improvements. In addition to spot safety improvements, CEAO provides up to $300,000 per county for each guardrail project, $150,000 per county for each pavement marking project, $75,000 per county for each raised pavement marker project, and $15,000 per county for curve signage upgrade projects.

Township Sign Grants
ODOT also sets aside $2M annually to upgrade safety-related signs on township roads. The grants are administered by LTAP.

This program was developed to address intersection and curve systematic signage upgrades for townships with a high number of severe crashes. The top 100 townships (for severe crashes) are invited to apply each year. Funding is capped at $50,000 for any one township. Funding is provided at 100% so no local matching funds are required. Township or county forces install the signs at their own cost.

There are 1,308 townships in Ohio and 566 of these have participated and completed signage installations since 2015.

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

- Design
- Districts/Regions
- Local Aid Programs Office/Division
- Maintenance
- Operations
- Planning
- Traffic Engineering/Safety
- Other-Traffic Systems Management and Operations

Describe coordination with internal partners.

ODOT's Office of Program Management accepts applications – accompanied by safety studies – from ODOT District Offices and local governments twice a year. Applications must be submitted through the District Offices, which have a multi-disciplinary committee that reviews and approves them for Central Office consideration. Projects are then reviewed and selected for funding by the Safety Review Committee in Central Office, which includes expertise in safety, planning, geometric design, and traffic operations.

Priority is given to any project that improves safety at a roadway location with high frequency, severity and rate of crashes. Projects are scored based on:

- Expected Crash Frequency with a focus on Severity
- Ratio of Observed Fatal and Serious Injuries to Observed Total Crashes
- Relative Severity Index
- Equivalent Property Damage Only Index
- Location Equity Measure
- Highway Safety Improvement Program Funding Percentage

Funding awarded through the program is used to make traditional safety improvements at spot locations, such as intersections, and along sections or corridors throughout the state. Consideration is also given to lower-volume, lower-crash local roads with identified needs and cost-effective countermeasures.

Ohio's program also works collaboratively with other local, state and federal agencies to develop multi-agency safety initiatives through the Strategic Highway Safety Plan. These efforts allow ODOT to pair engineering expertise with education and enforcement initiatives that play a key role in reducing injuries and deaths.

Identify which external partners are involved with HSIP planning.

- FHWA
- Governors Highway Safety Office
- Law Enforcement Agency

- Local Government Agency
- Regional Planning Organizations (e.g. MPOs, RPOs, COGs)

Describe coordination with external partners.

SHSP Steering Committee
Ohio's SHSP Steering Committee represents the state's largest coordination effort with external partners. The committee includes members from 15 key safety organizations operating at the local, state and federal level including: Ohio County Engineers Association; Local Transportation Assistance Program, Ohio Association of Regional Councils (MPOs and RTPOs); Ohio Department of Public Safety; Ohio State Highway Patrol; Federal Highway Administrationl; Federal Motor Carrier Administration; and Ohio Department of Health. These organizations then feed the information to a network of hundreds of other stakeholders who are getting more actively involved in the SHSP and helping to guide ODOT's HSIP efforts. In 2018, Ohio also added AAA to this committee's membership.

MPO/RTPO Safety Subcommittee
Ohio has developed a program with the state's MPOs and RTPOs to get more local governments involved in the HSIP. In 2017, Ohio formed a working group tasked with developing a process to provide more safety analysis assistance to local governments. Many MPOs and RTPOs publish prioritize safety lists, however, too few local governments use this analysis to conduct reviews, make recommendations and apply for HSIP funding. This collaborative project seeks to close that gap. In August 2018, the working group started the process of assigning consultants to MPOs and RTPOs to assist in this process and in 2021, the working group became a formal subcommittee of the Ohio Association of Regional Councils.

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

Program Administration: HSIP Administration Description

Ohio uses a focused approach to safety that targets resources based on the greatest need and greatest opportunity for improvements. We also promote the use of proven, cost-effective, systemic and systematic safety solutions that target critical, severe-crash types such roadway departure and intersections crashes. These focus areas are embodied in both the HSIP and the state's Strategic Highway Safety Plan.

We advanced the HSIP through the balanced deployment and implementation of a host of traditional spot safety investments and a host of systemic and systematic safety investments.

ODOT's Highway Safety Improvement Program and Safety Analyst Implementation

Each year, ODOT staff reviews the top safety locations in Ohio. Ohio was one of the first states in the country to fully implement AASHTOWare Safety Analyst and use it to prioritize safety locations across Ohio. Safety Analyst has been sunset as of 2021. ODOT is now in the process of acquiring AASHTOWare Safety by Numetric. AASHTOWare Safety by Numetric uses state-of-the-art statistical methodologies to identify roadway locations and safety improvements with the highest potential for reducing crashes. The software systems flag spot locations and road segments that have higher-than-predicted fatal and serious injury crash frequencies. This methodology improves efficiency and ensures we are targeting priority locations and addressing as many crashes as possible.

ODOT has developed eight priority lists based on rural and urban roadway types. The urban system covers all streets, roads, and highways located within incorporated areas with populations greater than 5,000. The suburban system is the network outside the incorporated area but still within the urban boundaries designated by the U.S. Census Bureau. The Bureau defines two types of urban areas based on population. Small urban

areas are urban places with a population or 5,000 or more and not located within any urbanized area. An urbanized area is an area with a population of 50,000 or more. As might be expected, the rural functional classification system covers all other streets, roads, and highways that are not located within the boundaries of small urban and urbanized areas.

The priority lists are:

1. Rural Intersection Peak Searching Excess Locations: These locations were selected because they have a higher-than-predicted crash frequency for each intersection.
2. Rural Non-Freeway Peak Searching Excess Segment Locations: These locations were selected because they have a higher-than-predicted crash frequency for this roadway type. Only crashes indicated on the OH-1 crash report form as being non-intersection crashes were included in this analysis.
3. Rural Freeway Peak Searching Excess Locations: These locations were selected because they have a higher-than-predicted crash frequency for this roadway type or interchange location.
4. Urban Intersection Peak Searching Excess Locations: These locations were selected because they have a higher-than-predicted fatal and injury crash frequency for each intersection.
5. Urban Non-Freeway Peak Searching Excess Segment Locations: These locations were selected because they have a higher-than-predicted fatal and injury crash frequency for this roadway type. Only crashes indicated on the OH-1 crash report form as being non-intersection crashes were included in this analysis.
6. Urban Freeway Peak Searching Excess Locations: These locations were selected because they have a higher-than-predicted fatal and injury crash frequency for this roadway type or interchange location.
7. Suburban Intersection Peak Searching Excess Locations: These locations were selected because they have a higher-than-predicted fatal and injury crash frequency for each intersection.
8. Suburban Non-Freeway Peak Searching Excess Segment Locations: These locations were selected because they have a higher-than-predicted fatal and injury crash frequency for this roadway type. Only crashes indicated on the OH-1 crash report form as being non-intersection crashes were included in this analysis.

Highway Safety Improvement Program Abbreviated Application

In 2023, ODOT continued a process that was initialized in 2016 to implement low-cost safety improvements faster. These requests are less than $500,000 that are either standalone projects or existing projects located on a priority location. This is part of an initiative to make safety improvements on all programmed projects. Over the past two years, the number of abbreviated applications has doubled.

Systemic and Systematic Safety Program
In 2022, ODOT's Highway Safety Program launched a Systemic Safety Application to focus on roadway departure and pedestrian safety improvements. This program now awards about $50M annually.

Safe Routes to School Program
ODOT uses $5 million from the Surface Transportation Block Grant Program to fund Ohio's Safe Routes to School Program. Again, this is separate and in addition to the $185 million ODOT HSIP program. Funds can be used on any public roadway if the school has completed a School Travel Plan, or equivalent plan approved by ODOT. The School Travel Plan outlines where investments should be made for a specific school district.

Governor's Intersection Safety Program

Since the Governor's Intersection Safety Program was initiated in 2019, 102 projects have been completed, 19 are under construction this year, 19 are under development and 17 locations are being monitored.

The program was launched by the Governor in 2019 to prevent crashes at 150 rural, urban and suburban intersections. Each year, about 37% of all fatal and serious injuries occur at Ohio intersections.

Funding is being used to make a range of safety improvements including upgrading signals, pavement markings and signs, installing turn lanes and high visibility pedestrian crossings, and building roundabouts. In total, the program represents a $405M investment through 2024.

Other Programs
Small portions of ODOT's state funding are used for work zone enforcement, distracted driving initiatives, Move Over, and other educational opportunities. Starting in 2023, ODOT has set aside funding for the High-Risk Rural Roads Program (HRRR) in Ohio. Any projects that are prioritized based on the HRRR Program are funded through the ODOT's HSIP Program ($185 million).

ODOT also combines HSIP funding with other funding sources (such as MPO and Ohio Rail Development Commission (ORDC)) to make safety improvements.

Program Methodology

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

Yes

See Program Methodology Attachments for HSIP Procedure Manual

Select the programs that are administered under the HSIP.

- Sign Replacement And Improvement
- Other-State HSIP Program
- Other-CEAO HSIP Program
- Other-Systemic Program

Program: Sign Replacement And Improvement

Date of Program Methodology:12/1/2012

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
• All crashes	• Population • Lane miles	

What project identification methodology was used for this program?

- 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?

Yes

How are projects under this program advanced for implementation?

- Other-Priority Based

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:1

Program: Other-State HSIP Program

Date of Program Methodology:3/1/2016

What is the justification for this program?

- Addresses SHSP priority or emphasis area

What is the funding approach for this program?

Competes with all projects

What data types were used in the program methodology?

Crashes	Exposure	Roadway
• All crashes • Fatal and serious injury crashes only	• Traffic • Volume	

What project identification methodology was used for this program?

- EPDO crash frequency with EB adjustment
- Excess expected crash frequency with the EB adjustment
- Expected crash frequency with EB adjustment

- Other-(Total Fatal and Serious Injuries)/Total Crashes
- Other-Volume to Capacity Ratio
- 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?

- Competitive application process

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

Rank of Priority Consideration

Ranking based on B/C:1
Available funding:3
Cost Effectiveness:2

Program: Other-CEAO HSIP Program

Date of Program Methodology:7/1/2011

What is the justification for this program?

- Addresses SHSP priority or emphasis area

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

Roadway

- Other-Rural County Highway System

What project identification methodology was used for this program?

- Crash frequency

- Crash rate
- Equivalent property damage only (EPDO Crash frequency)
- Other-Amount of Funding Requested
- 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?

- Competitive application process
- 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

Ranking based on B/C:1
Available funding:3
Cost Effectiveness:2

Program: Other-Systemic Program

Date of Program Methodology:1/1/2022

What is the justification for this program?

- Addresses SHSP priority or emphasis area

What is the funding approach for this program?

Funding set-aside

What data types were used in the program methodology?

Crashes	Exposure	Roadway
	• Traffic • Volume	• Functional classification • Roadside features • Other-Pedestrian Safety

What project identification methodology was used for this program?

- Crash frequency
- Crash rate
- Other-FHWA Proven Safety Countermeasures

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?

- Competitive application process
- 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:3
Cost Effectiveness:2
Other-Countermeasure Selection:1

What percentage of HSIP funds address systemic improvements?

23

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

- Horizontal curve signs
- Install/Improve Pavement Marking and/or Delineation
- Install/Improve Signing
- Rumble Strips
- Traffic Control Device Rehabilitation
- Upgrade Guard Rails
- Wrong way driving treatments

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

Does the State HSIP consider connected vehicles and ITS technologies?

Yes

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

ODOT safety program staff participate in bi monthly meetings with the Autonomous Vehicle, Connected Vehicle and Transportation Systems Management & Operations (AV/CV TSMO) Group. Additionally, the Ohio HSIP Program has been supportive in ITS technologies and AV/CV is included in the 2020 SHSP. Example projects include the following: Freeway queue warning system with driver messages, freeway camera monitoring equipment, and ramp wrong way driver alert systems.

Safety program and DriveOhio met to discuss current crash trends and related vehicle and infrastructure technology. The safety program provided crash trends related to several technologies to aid in the prioritization for deployment.

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.

Ohio uses AASHTOWare Safety Analyst (Safety Analyst) to prioritize the roadway network within the state. Safety Analyst faithfully implements Part B of the Highway Safety Manual (HSM).

All projects submitting for State HSIP Program funds are required to complete a Part C analysis included in the HSM. Additionally, ODOT has developed policy guidance to implement HSM for all projects. The level of analysis varies depending on the complexity of the project. For smaller projects, basic crash analysis is required. This includes identifying if the location is a priority location and reviewing general observed crash trends. For larger projects, Part C analysis is added as a requirement to understand the change in long term crash frequency.

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)	$96,914,769	$96,914,769	100%
HRRR Special Rule (23 U.S.C. 148(g)(1))	$0	$0	0%
VRU Safety Special Rule (23 U.S.C. 148(g)(3))	$0	$0	0%
Penalty Funds (23 U.S.C. 154)	$0	$0	0%
Penalty Funds (23 U.S.C. 164)	$33,575,066	$33,575,066	100%
RHCP (for HSIP purposes) (23 U.S.C. 130(e)(2))	$0	$0	0%
Other Federal-aid Funds (i.e. STBG, NHPP)	$170,781,791	$121,212,812	70.98%
State and Local Funds	$146,801,379	$103,335,684	70.39%
Totals	$448,073,005	$355,038,331	79.24%

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

32%

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

32%

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

1%

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

1%

There has been $1,953,908 obligated to non-infrastructure projects in FFY22. These projects include items such as safety studies, task order design contracts, ODOT's crash data collection and analysis system (OH1), training courses, and the new Multi-Modal Design Guide.

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.

For FFY 2022, Ohio has obligated approximately 100%. ODOT's safety program is making great progress working with our SHSP partners to advance the HSIP and help reduce fatal and serious injury crashes in Ohio.

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
109613 - WAR CR 21 0.23	Access management	Change in access - close or restrict existing access	0.18	Miles	$172159	$172159	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	38,471	35	County Highway Agency	Spot	Intersections	Access management to recude intersection crashes
112328 - JAC-35 (1.79-2.75) Rest Stop	Access management	Change in access - close or restrict existing access	1	Locations	$2059023	$2569949	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	16,807	60	State Highway Agency	Spot	Intersections	Consolidate the access points for the rest stop to one access point to reduce intersection related crashes.
113797 - CUY IR 071/090 Wrong Way Signs	Advanced technology and ITS	Wrong-way Driving Detection System	24	Locations	$102780	$114200	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Interstate	141,592	60	State Highway Agency	Systemic	Lane Departure	Install wrong way signs at 24 locations to reduce wrong way crashes.
115709 - HIG CR 7 12.11 Curve PE & RW	Alignment	Horizontal curve realignment	1	Curves	$12619	$12619	HSIP (23 U.S.C. 148)	Rural	Minor Collector	824	0	County Highway Agency	Spot	Roadway Departure	Curve alignment project to reduce roadway departure crashes.
109958 - CLI CR 12 4.43 Antioch Road	Alignment	Horizontal and vertical alignment	0.5	Miles	$24591	$24591	HSIP (23 U.S.C. 148)	Rural	Minor Collector	1,987	45	County Highway Agency	Spot	Roadway Departure	Curve alignment project to reduce roadway departure crashes.
111634 - TUS CR 82 3.40	Alignment	Vertical alignment or elevation change	1	Intersections	$58318	$60779	HSIP (23 U.S.C. 148)	Urban	Minor Collector	888	0	County Highway Agency	Spot	Intersections	Reconstructed intersection alignment to improve the visibility of the intersection from all directions and reduce intersection crashes.
110356 - ASD US 0250 19.88	Alignment	Vertical alignment or elevation change	1	Intersections	$1246554	$1467459	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	6,721	55	State Highway Agency	Spot	Intersections	Improve the intersection sight distance and reduce intersection crashes by

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
															lowering a crest vertical curve to the west of the intersection.
109520 - TRU SR 0046 07.81	Interchange design	Interchange design - other	1	Interchanges	$83602	$572613	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	17,422	40	State Highway Agency	Spot	Intersections	Construct a diverging diamond interchange to reduce rear end and angle crashes
113717 - WAR SR 73 3.66	Interchange design	Installation of new lane on ramp	3	Lanes	$51947	$69800	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	20,974	45	County Highway Agency	Spot	Intersections	Add lanes to ruduce roadway departure crashes
106239 - CUY IR 077 04.79/Wallings Road	Interchange design	Installation of new lane on ramp	6	Lanes	$248129	$272284	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	12,946	0	City or Municipal Highway Agency	Spot	Intersections	Addition of multiple lanes on interchange ramps to increase traffic flow and safety.
115031 - CUY IR 480 10.54 Ramp Clear	Interchange design	Installation of new lane on ramp	1	Lanes	$134319	$134319	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	State Highway Agency	Spot	Intersections	Construct a dedicated right turn lane on the ramp to reduce fixed object crashes.
109519 - UNI-42-4.51/4.68	Interchange design	Installation of new lane on ramp	1	Interchanges	$40615	$67301	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	12,549	55	State Highway Agency	Spot	Intersections	Widening of off ramps to provide turn lanes and installing signals to reduce intersection crashes and congestion.
115034 - CUY IR 480 05.40/10.54 RampClear	Interchange design	Installation of new lane on ramp	1	Lanes	$71048	$104613	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Interstate	111,158	60	State Highway Agency	Spot	Intersections	Construct a dedicated right turn lane on the ramp to reduce fixed object crashes.
108465 - LUC SR 2 13.77 Intr Widen Grp A	Intersection geometry	Modify lane assignment	1	Intersections	$644180	$2262615	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	13,151	50	City or Municipal Highway Agency	Spot	Intersections	Modify lane assignments to reduce rear end crashes

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
109350 - CLI SR 73 2.66	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	$170000	$430816	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	8,185	55	State Highway Agency	Spot	Intersections	Add lane to reduce intersection crashes
109357 - CLE SR 28 1.76	Intersection geometry	Intersection geometry - other	1	Intersections	$1608552	$3986093	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	48,125	55	State Highway Agency	Spot	Intersections	Construct a superstreet intersection to reduce rear end and angle crashes
110876 - WAY US 0030 20.15	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	$527455	$911793	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	22,773	55	State Highway Agency	Spot	Intersections	Construct right turn lanes to reduce rear end crashes
111375 - ALL US 30 16.19	Intersection geometry	Innovative Intersection (e.g. MUT, RCUT, QR)	1	Intersections	$1600000	$2384896	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	10,887	65	State Highway Agency	Spot	Intersections	Intersection improvments to reduce intersection crashes
109351 - BUT US 27 1.85	Intersection geometry	Innovative Intersection (e.g. MUT, RCUT, QR)	3	Intersections	$3116683	$4077953	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	12,474	45	State Highway Agency	Spot	Intersections	Intersection improvments to reduce intersection crashes
110426 - CUY US 422 04.34 Safety	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	$2280000	$2713330	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	13,684	35	State Highway Agency	Spot	Intersections	Intersection improvments to reduce intersection crashes
110495 - LUC SR 184 6.5 Safety Grp A	Intersection geometry	Add/modify auxiliary lanes	4	Intersections	$2300000	$2592752	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	21,258	45	State Highway Agency	Systemic	Intersections	Add 2 way left turn lanes to reduce intersection crashes
102108 - ASD US 0030 00.11	Intersection geometry	Intersection geometry - other	1	Intersections	$3170000	$3572976	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	16,195	60	State Highway Agency	Spot	Intersections	Construct restricted crossing u turns to reduce angle crashes
112179 - SHE-47-13.97	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	$1449708	$1610786	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	18,923	35	City or Municipal Highway Agency	Spot	Intersections	Construct right turn lane to reduce angle and rear end crashes

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
112329 - SCI-SR 73-21.00 Safety	Intersection geometry	Add/modify auxiliary lanes	0.9	Miles	$2012410	$2036373	HSIP (23 U.S.C. 148)	Urban	Minor Collector	8,498	55	State Highway Agency	Spot	Intersections	Construct two way left turn lane to reduce rear end crashes
110482 - SEN US 224 11.98 Safety Grp A	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	$25627	$1397200	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	12,961	55	State Highway Agency	Spot	Intersections	Add 2 way left turn lanes to reduce intersection crashes
110797 - DEL-23-1.39 (at Powell Rd)	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	$302517	$310573	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	39,990	55	State Highway Agency	Spot	Intersections	Add right turn lanes to reduce intersection crashes
110412 - FAI SR 37 06.10	Intersection geometry	Add/modify auxiliary lanes	1.2	Miles	$2842866	$3137147	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	8,535	55	State Highway Agency	Spot	Intersections	Widening of the road leading up to the intersection and adding a left turn lane at each approach to reduce crashes and increase traffic flow.
110862 - FAI CR 7 01.94	Intersection geometry	Intersection geometry - other	4	Intersections	$375763	$401531	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	0	0	County Highway Agency	Spot	Intersections	Intersection improvements at 4 locations to increase safety and reduce congestion.
111009 - ATB SR 0045 19.28	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	$1385037	$1434012	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	7,492	40	State Highway Agency	Spot	Intersections	Construct a Northbound and Southbound left turn lane at signal and extend 3rd lane north to reduce congestion and increase safety.
111283 - LOR SR 0254 05.66	Intersection geometry	Add/modify auxiliary lanes	0.69	Miles	$80188	$80188	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	28,353	45	City or Municipal Highway Agency	Spot	Roadway Departure	Adding through/ turn lanes and making signal improvements to reduce fixed object crashes.

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102027 - LOR SR 0254 02.03	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	$100000	$100000	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	27,429	35	State Highway Agency	Spot	Intersections	Installing right turn lane to reduce intersection crashes and improve efficency.
103721 - STA SR 0021 16.37	Intersection geometry	Innovative Intersection (e.g. MUT, RCUT, QR)	1	Intersections	$34500	$62038	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	16,805	60	State Highway Agency	Spot	Intersections	Intersection improvments with RCUT to reduce intersection crashes
113744 - FRA-33-21.71 at Petzinger Rd	Intersection geometry	Innovative Intersection (e.g. MUT, RCUT, QR)	1	Intersections	$459000	$805062	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other Freeways & Expressways	45,562	60	State Highway Agency	Spot	Intersections	Intersection improvments with RCUT to reduce intersection crashes
110471 - CAR-43-16.07	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	$899681	$1233977	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	7,528	55	State Highway Agency	Spot	Intersections	Install left turn lanes to reduce intersection crashes and congestion.
110388 - FRA SR 16 4.84 (at N-James Rd)	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	$407361	$407361	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	22,924	35	City or Municipal Highway Agency	Spot	Intersections	Constructing dual left lanes, a right lane in each direction, reconstructing existing signal, and installing median to reduce intersection crashes.
109455 - LOR SR 0083 02.55	Intersection traffic control	Modify control – Modern Roundabout	2	Intersections	$25001	$4162962	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	8,053	55	State Highway Agency	Spot	Intersections	Construct two roundabouts to reduce angle crashes
113897 - MOT-Austin Blvd. Signal Timing	Intersection traffic control	Modify traffic signal –other	1	Locations	$7753	$7753	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	27,386	0	State Highway Agency	Systemic	Intersections	Improve signals to reduce intersection crashes
110379 - FRA-40-20.10 (at S-Hamilton Rd)	Intersection traffic control	Intersection traffic control - other	1	Intersections	$70000	$1410187	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	21,428	35	State Highway Agency	Spot	Intersections	Intersection improvments to reduce

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															intersection crashes
109550 - MAR-98-6.22 (at SR 529)	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$180000	$2598346	HSIP (23 U.S.C. 148)	Rural	Minor Collector	5,710	55	State Highway Agency	Spot	Intersections	Roundabout to reduce angle crashes
110481 - HOL US 62 19.650	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	$6028	$65495	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	12,694	35	State Highway Agency	Spot	Intersections	Upgrade existing signal hardware to reduce rear end, sideswipe-passing, and angle crashes
111842 - HAM CR 101 13.63	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$35000	$188441	HSIP (23 U.S.C. 148)	Urban	Minor Collector	0	0	City or Municipal Highway Agency	Spot	Intersections	Construct roundabout to reduce angle crashes
104623 - DEL SR 61 4.71 (at Wilson Rd)	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$509108	$2265638	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	5,511	55	State Highway Agency	Spot	Intersections	Roundabout to reduce angle crashes
113753 - SHE SR 47 15.36	Intersection traffic control	Modify traffic signal – add backplates with retroreflective borders	1	Intersections	$244371	$417451	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	13,026	35	City or Municipal Highway Agency	Spot	Intersections	Intersection improvments to reduce intersection crashes
110500 - LUC US 20 16.47 Safety Grp A	Intersection traffic control	Modify control – other	2	Locations	$1230000	$1770437	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	21,629	45	State Highway Agency	Systemic	Intersections	Intersection improvments to reduce intersection crashes
107240 - FRA CR 14 (Refugee) 1.99	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	$361077	$511077	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	11,080	0	City or Municipal Highway Agency	Spot	Intersections	Upgrade existing signal hardware to reduce rear end crashes
113662 - DEL-315-5.66 at Hyatts Rd	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$185000	$253789	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	7,892	45	State Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
112888 - WAS SR 60 19.940	Intersection traffic control	Modify traffic signal –other	4	Intersections	$376254	$376254	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	5,978	35	State Highway Agency	Systemic	Intersections	Intersection improvments to reduce intersection crashes

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
113373 - MOT-48-4.28	Intersection traffic control	Modify traffic signal – modernization/replacement	0.1	Miles	$388875	$388875	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	31,179	35	City or Municipal Highway Agency	Spot	Intersections	Intersection improvments to reduce intersection crashes
99197 - HIG-SR73/CR7-0.50/12.11 Safety	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	$87650	$108500	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	5,116	55	County Highway Agency	Spot	Intersections	Intersection improvments to reduce intersection crashes
113723 - HAM CR 457 1.52	Intersection traffic control	Modify control – other	0.74	Miles	$22829	$25825	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	12,285	35	City or Municipal Highway Agency	Systemic	Intersections	Intersection improvments to reduce intersection crashes
113447 - MOT-Woodman-Burkhardt Signal	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	$408133	$426197	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	City or Municipal Highway Agency	Spot	Intersections	Upgrade intersection signals to reduce intersection crashes
110466 - BUT US 127 16.56	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$200732	$208909	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	8,287	55	State Highway Agency	Spot	Intersections	Roundabout to reduce intersection crashes
110484 - MOT-201-4.18	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	$691245	$698227	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	20,304	50	State Highway Agency	Spot	Intersections	Intersection improvments to reduce intersection crashes
104740 - TRU CR 0329 3.27 E Market St	Intersection traffic control	Modify control – new traffic signal	2	Intersections	$2456	$2456	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	27,414	45	State Highway Agency	Spot	Intersections	Intersection improvments to reduce intersection crashes
116318 - MAR-309-14.03	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$5000	$5000	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	4,750	55	State Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
114270 - BUT CR 22/TR 106 0.63/2.99	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$16491	$16491	HSIP (23 U.S.C. 148)	Urban	Local Road or Street	0	0	County Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes

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
117159 - MED SR 261 Signal Timing	Intersection traffic control	Modify traffic signal timing – general retiming	1	Locations	$29066	$29066	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	8,449	45	State Highway Agency	Systemic	Intersections	Signal timing along the corridor to reduce crashes.
116506 - HAM-4-4.67 Signal Timing	Intersection traffic control	Modify traffic signal timing – general retiming	1	Locations	$33237	$33237	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	15,417	35	State Highway Agency	Systemic	Intersections	Signal timing along the corridor to reduce crashes.
116466 - LOR-58-24.5 Signal Timing	Intersection traffic control	Modify traffic signal timing – general retiming	1	Locations	$40000	$40000	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	22,680	40	State Highway Agency	Systemic	Intersections	Signal timing along the corridor to reduce crashes.
116788 - LOR-254-2.0 Signal Timing	Intersection traffic control	Modify traffic signal timing – general retiming	1	Locations	$40423	$40423	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	17,484	35	State Highway Agency	Systemic	Intersections	Signal timing along the corridor to reduce crashes.
115552 - LAK US 020 12.96 Signal Timing	Intersection traffic control	Modify traffic signal timing – general retiming	1	Locations	$44083	$44083	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	20,811	35	State Highway Agency	Systemic	Intersections	Signal timing along the corridor to reduce crashes.
110213 - BUT SR 747 1.01/2.07	Intersection traffic control	Modify traffic signal – modernization/replacement	2	Intersections	$44402	$44402	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	30,890	45	State Highway Agency	Systemic	Intersections	Rebuilding existing signals to reduce intersection crashes.
113822 - STA SR 0043 20.20	Intersection traffic control	Modify control – new traffic signal	3	Intersections	$46500	$46500	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	10,973	45	State Highway Agency	Spot	Intersections	Construct turn lanes and rebuild signal to reduce intersection crashes.
116467 - MED-303-6.87 Signal Timing	Intersection traffic control	Modify traffic signal timing – general retiming	1	Locations	$51000	$51000	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	14,445	45	State Highway Agency	Systemic	Intersections	Signal timing along the corridor to reduce crashes.
116468 - MED-42-16.8 Signal Timing	Intersection traffic control	Modify traffic signal timing – general retiming	1	Locations	$52000	$52000	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	13,347	25	State Highway Agency	Systemic	Intersections	Signal timing along the corridor to reduce crashes.
115870 - MAH-224-16.40 Signal Timing	Intersection traffic control	Modify traffic signal timing – general retiming	1	Locations	$58500	$58500	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	35,409	45	State Highway Agency	Systemic	Intersections	Signal timing along the corridor to reduce crashes.

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110922 - DEL-605-0.31 (at Fancher Rd)	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$500000	$509520	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	4,592	55	State Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
114797 - LOR SR 0083 11.19 Roundabout	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$98307	$98307	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	5,865	45	City or Municipal Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
104864 - LOR SR 0113 03.75 Baumhart Sfty	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$1345011	$1574558	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	2,709	55	State Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
113868 - MOT-SR-49-6.41	Intersection traffic control	Modify traffic signal –other	1	Intersections	$374433	$412790	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	13,421	50	City or Municipal Highway Agency	Spot	Intersections	Install new mast arm traffic signal and right turn lane to reduce crashes.
110428 - ALL SR 309 18.19/22.33	Intersection traffic control	Modify control – Modern Roundabout	2	Intersections	$4384540	$4744867	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	6,743	55	State Highway Agency	Spot	Intersections	Construct 2 roundabouts to reduce fixed object crashes
110452 - D08 HSIP Signals	Intersection traffic control	Modify control – new traffic signal	5	Intersections	$897000	$960622	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	39,702	55	State Highway Agency	Spot	Intersections	Install traffic signals at 4 intersections and modify 1 existing signal to reduce crashes and improve congestion.
111133 - ATB SR 0307 03.21	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$70000	$74770	HSIP (23 U.S.C. 148)	Urban	Minor Collector	4,944	55	State Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
110475 - DAR-36/121-8.35/12.65	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$1657998	$1726705	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	3,754	55	State Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
95446 - MAH CR 0151 03.57 (South Ave.)	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	$88104	$88104	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	11,718	0	County Highway Agency	Spot	Intersections	Install new traffic signal on mast arms with detection to increase intersection safety and reduce crashes.

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114811 - WAY CR 0054 08.33	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$125488	$247458	HSIP (23 U.S.C. 148)	Urban	Minor Collector	4,140	45	County Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
97431 - DEL CR 13 5.02	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$279240	$529240	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	11,548	35	County Highway Agency	Spot	Intersections	Construct peanut shaped roundabout to reduce fixed object crashes
109601 - BRO-68-30.82	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$1690000	$1970959	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	16,651	35	State Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
115984 - KNO SR 229/308 13.06/0.00	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$630000	$630000	HSIP (23 U.S.C. 148)	Urban	Minor Collector	3,310	55	State Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
111006 - CUY SR 175 08.59 Safety	Intersection traffic control	Modify traffic signal –other	1	Intersections	$259079	$469312	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	18,390	35	State Highway Agency	Spot	Intersections	Signal and striping improvements to reduce intersection crashes
111011 - STA SR 0687 03.03	Intersection traffic control	Modify traffic signal – add backplates with retroreflective borders	1	Intersections	$1046529	$1860063	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	15,174	45	State Highway Agency	Spot	Intersections	Intersection improvements to increase safety and reduce congestion.
112132 - WOO SR 65 23.35	Intersection traffic control	Modify control – new traffic signal	1	Intersections	$198948	$198948	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	9,315	35	City or Municipal Highway Agency	Spot	Intersections	Install a traffic signal to increase safety and reduce congestion.
113850 - KNO SR 13 10.20	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	$232101	$232101	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	21,853	25	City or Municipal Highway Agency	Spot	Intersections	Intersection improvements including traffic signal replacement, pavement markings, and signing to reduce crashes.
111841 - CLI US 68 14.97	Intersection traffic control	Modify traffic signal timing – general retiming	1	Intersections	$675187	$992585	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	8,615	35	City or Municipal	Spot	Intersections	Signal retiming and intersection

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												Highway Agency			improvements to reduce crashes.
107822 - UNI US 42 3.91	Intersection traffic control	Modify control – new traffic signal	1	Locations	$264490	$264490	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	12,549	55	State Highway Agency	Spot	Intersections	Intersection improvements including traffic signal replacement to reduce crashes.
113708 - GRE SR 235 3.79	Intersection traffic control	Modify traffic signal –other	1	Intersections	$271700	$271700	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	3,192	55	State Highway Agency	Spot	Intersections	Rebuild traffic signal in reduce intersection crashes.
111252 - HAM CR 617 2.59 Kirby & Bruce	Intersection traffic control	Modify control – two-way stop to all-way stop	1	Intersections	$88442	$119778	HSIP (23 U.S.C. 148)	Urban	Minor Collector	4,560	0	City or Municipal Highway Agency	Spot	Intersections	Realignment of the intersection and conversion to all way stop and
113446 - MIA-SR-41-12.25	Intersection traffic control	Modify control – new traffic signal	1	Intersections	$333850	$333850	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	10,974	35	City or Municipal Highway Agency	Spot	Intersections	Install new traffic signal to reduce intersection crashes and congestion.
113709 - WAR SR 48 9.49	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	$467500	$555858	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	16,780	55	Town or Township Highway Agency	Spot	Intersections	Rebuild traffic signal and add pedestrian accomodations to reduce intersection and pedestrian crashes.
110407 - FAI US 22 09.42	Intersection traffic control	Modify control – Modern Roundabout	2	Intersections	$3277917	$3749279	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	11,195	55	State Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
117056 - GEA SR 087 16.43 Safety	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	$21420	$23800	HSIP (23 U.S.C. 148)	Rural	Minor Collector	9,231	35	State Highway Agency	Spot	Intersections	Purchase 4 radar stop bar detectors to be installed to detect horse-and-buggy vehicles and reduce intersection crashes.

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113776 - MAH TAFT Lighting SRTS	Lighting	Continuous roadway lighting	1	Locations	$28289	$28289	HSIP (23 U.S.C. 148)	Urban	Minor Collector	1,336	25	City or Municipal Highway Agency	Spot	Pedestrians	Install lighting around school to reduce pedestrian crashes.
113516 - STW 2021 CEAO Safety Studies	Miscellaneous	Transportation safety planning	1	Study	$127378	$789345	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
110515 - STW 2020 CEAO Safety Studies	Miscellaneous	Transportation safety planning	1	Study	$87495	$232718	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
114033 - D2 Safety Studies 2020	Miscellaneous	Transportation safety planning	1	Study	$9000	$10000	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Interstate	84,147	60	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
115886 - ERI-CR110-2.83 Safety Study	Miscellaneous	Transportation safety planning	1	Study	$16711	$16711	HSIP (23 U.S.C. 148)	Urban	Minor Collector	4,406	45	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
115165 - ALL SR 117/501 Safety Study	Miscellaneous	Transportation safety planning	1	Study	$26788	$26788	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	8,424	55	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
115592 - STW Design Admin - Carp. Marty	Miscellaneous	Transportation safety planning	1	Task Order	$51027	$51027	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	State Highway Agency	Design Contract	Design Contract	Administrative and scoping services through duration of Carpenter Marty Task Order Design Contract
115333 - FUL-2-14.79 Safety Study	Miscellaneous	Transportation safety planning	1	Study	$15890	$20901	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	10,701	35	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
115331 - SUM-303-12.6 Safety Study	Miscellaneous	Transportation safety planning	1	Study	$31886	$39987	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	12,927	25	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
117156 - JEF 43 0.00 to 4.48 Safety Study	Miscellaneous	Transportation safety planning	1	Study	$76500	$90316	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	16,676	35	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes

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114820 - LAK SR 084 02.43 Safety Study	Miscellaneous	Transportation safety planning	1	Study	$8847	$9830	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	6,529	35	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
115972 - WIL-20-13.32 Safety Study	Miscellaneous	Transportation safety planning	1	Study	$13702	$15225	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	3,212	55	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
115264 - PER US 22 06.18 Safety Study	Miscellaneous	Transportation safety planning	1	Study	$28650	$31833	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	4,559	25	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
115553 - STA-21-8.26 Safety Study	Miscellaneous	Transportation safety planning	1	Study	$73030	$81144	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other Freeways & Expressways	20,748	55	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
115673 - CUY CR 009 05.00 Safety Study	Miscellaneous	Transportation safety planning	1	Study	$65732	$65732	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	15,033	35	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
115330 - DAR-49-15.2 Safety Study	Miscellaneous	Transportation safety planning	1	Study	$66076	$74314	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	6,817	45	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
115971 - WOO-18-13.5 Safety Study	Miscellaneous	Transportation safety planning	1	Study	$20595	$22883	HSIP (23 U.S.C. 148)	Rural	Minor Collector	6,475	55	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
114648 - STW Safety Analysis 2021 Task 2	Miscellaneous	Transportation safety planning	1	Study	$67454	$74949	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
115551 - Clinton County Safety Plan	Miscellaneous	Transportation safety planning	1	Study	$98338	$109265	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
114739 - STW Work Zone Enforcement	Miscellaneous	Work zone enforcement	1	ISTV	$216000	$240000	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	State Highway Agency	Systemic	Work Zones	ISTV for ODPS to reduce crashes in work zones.
117082 - D03 Studies 2022-1	Miscellaneous	Transportation safety planning	1	Study	$32333	$35926	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	23,576	50	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes

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116227 - D10 Studies Carpenter Marty 2022	Miscellaneous	Transportation safety planning	1	Study	$34079	$37866	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	11,606	45	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
115063 - STW OH1 2022	Miscellaneous	Data analysis	1	Improvements	$141980	$283960	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	State Highway Agency	Improvements	Data	Enhancements to OH1 Crash System.
115907 - STW Safety Training 2022	Miscellaneous	Training and workforce development	1	Training	$117029	$180032	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	State Highway Agency	Training	Training Course	Develop and pilot statewide safety training courses.
115118 - HUR SR 0004 08.02	Miscellaneous	Transportation safety planning	1	Intersections	$28593	$31770	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	2,944	55	State Highway Agency	Spot	Intersections	Development of three conceptual alternatives for the intersection to reduce intersection crashes.
113435 - FRA-Hilliard-Main St Ped Improve	Pedestrians and bicyclists	Rapid Rectangular Flashing Beacons (RRFB)	2	Locations	$13637	$969560	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	19,633	35	City or Municipal Highway Agency	Spot	Pedestrians	Crosswalk installations to reduce pedestrian crashes
103776 - BRO-52-19.99	Pedestrians and bicyclists	Pedestrians and bicyclists – other	0.09	Miles	$14900	$14900	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	6,291	35	City or Municipal Highway Agency	Systemic	Bicyclists	Finish bike path to reduce bike related crashes
108631 - SAN NCIT Fremont	Pedestrians and bicyclists	Pedestrians and bicyclists – other	1	Path	$15834	$15834	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	1,589	0	City or Municipal Highway Agency	Systemic	Bicyclists	Create a SUP to reduce bicycle related crashes
108902 - MEG Middleport/Pomeroy Path Ph 3	Pedestrians and bicyclists	Pedestrians and bicyclists – other	0.71	Miles	$79863	$502792	HSIP (23 U.S.C. 148)	Urban	Minor Collector	6,464	0	County Highway Agency	Systemic	Bicyclists	Create a SUP to reduce bicycle related crashes
113269 - LUC Toledo Ped Safety Impv	Pedestrians and bicyclists	Pedestrians and bicyclists – other	70	Intersections	$228830	$1122344	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	27,554	45	State Highway Agency	Systemic	Pedestrians	Improve pedestrian facilities to reduce pedestrian crashes
113724 - GRE Yellow Spgs Multi-Modal FY23	Pedestrians and bicyclists	Pedestrians and bicyclists – other	0.76	Miles	$79136	$182615	HSIP (23 U.S.C. 148)	Rural	Minor Collector	6,159	25	Other Local Agency	Systemic	Bicyclists	Construct a Shared use path to reduce bike crashes

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109641 - HEN SR 109 21.06 RRFB Libry Cntr	Pedestrians and bicyclists	Pedestrian signal	1	Intersections	$48036	$97182	HSIP (23 U.S.C. 148)	Rural	Minor Collector	3,672	35	State Highway Agency	Spot	Pedestrians	Improve pedestrian facilities to reduce pedestrian crashes
113956 - WAS Marietta Pedestrian Improve	Pedestrians and bicyclists	Pedestrian signal	8	Intersections	$183407	$183407	HSIP (23 U.S.C. 148)	Urban	Minor Collector	2,297	25	State Highway Agency	Systemic	Pedestrians	Improve pedestrian facilities to reduce pedestrian crashes
113330 - CUY Cleveland PSIP	Pedestrians and bicyclists	Pedestrians and bicyclists – other	62	Intersections	$830000	$1468664	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	35,500	35	State Highway Agency	Systemic	Pedestrians	Improve pedestrian facilities to reduce pedestrian crashes
110840 - HAS Country Club Rd Sidewalks	Pedestrians and bicyclists	Install sidewalk	0.36	Miles	$288443	$288443	HSIP (23 U.S.C. 148)	Urban	Multiple/Varies	0	0	City or Municipal Highway Agency	Spot	Pedestrians	Install sidewalks to reduce pedestrian crashes
113608 - LOG-68-0.52	Pedestrians and bicyclists	Install new crosswalk	2	Intersections	$20233	$22525	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	6,856	25	State Highway Agency	Spot	Pedestrians	Crosswalk improvments to reduce pedestrian crashes
114231 - PRE-503 Lewisburg Crosswalks	Pedestrians and bicyclists	Install new crosswalk	2	Crosswalks	$11859	$11859	HSIP (23 U.S.C. 148)	Rural	Minor Collector	4,415	30	State Highway Agency	Spot	Pedestrians	Crosswalk improvments to reduce pedestrian crashes
116305 - CLA US 42 5.85 to 5.86	Pedestrians and bicyclists	Pedestrian beacons	2	Locations	$16877	$16877	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	2,847	35	State Highway Agency	Spot	Pedestrians	Install pedestrian RFBs to reduce pedestrian crashes
106539 - SUM Wooster Rd/Robinson	Pedestrians and bicyclists	Pedestrians and bicyclists – other	0.26	Miles	$741426	$1411494	HSIP (23 U.S.C. 148)	N/A	N/A	11,745	0	City or Municipal Highway Agency	Spot	Pedestrians	Construct a shared use path to reduce bike and pedestrian crashes
109136 - FRA-SRTS Kingsford Rd Sidewalks	Pedestrians and bicyclists	Install sidewalk	0.3	Miles	$381900	$381900	HSIP (23 U.S.C. 148)	Urban	Local Road or Street	0	0	City or Municipal	Spot	Pedestrians	Install sidewalks to reduce

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												Highway Agency			pedestrian crashes
103626 - DEL US 36 11.03	Railroad grade crossings	Railroad grade crossings - other	1	Locations	$315000	$2326540	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	27,544	55	City or Municipal Highway Agency	Spot	Railroad	Improve railroad overpass clearance height to reduce fixed object crashes
110492 - COS TR 255 CUOH	Railroad grade crossings	Visibility improvements	1	Intersections	$46968	$46968	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	Railroad	Spot	Intersections	Improve RR signal to reduce train crashes
111147 - WAS Farson St CSX	Railroad grade crossings	Active grade crossing equipment installation/upgrade	1	Intersections	$100000	$100000	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	Railroad	Spot	Intersections	Improve RR signal to reduce train crashes
111140 - MUS CR 408 Pleasant Valley CUOH	Railroad grade crossings	Active grade crossing equipment installation/upgrade	1	Intersections	$226110	$226110	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	Railroad	Spot	Intersections	Improve RR signal to reduce train crashes
108605 - WAY CR 504 WE	Railroad grade crossings	Active grade crossing equipment installation/upgrade	1	Intersections	$4107	$4107	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	Railroad	Spot	Intersections	Improve RR signal to reduce train crashes
113314 - BUT Augspurger Rd NS	Railroad grade crossings	Active grade crossing equipment installation/upgrade	1	Intersections	$101177	$101177	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	Railroad	Spot	Intersections	Improve RR signage and installing traffic signal preemption to reduce train crashes
110989 - STW Preemption ORDC 2020	Railroad grade crossings	Railroad grade crossings - other	1	Consultant services	$175000	$175000	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	Railroad	Consultant services	Consultant services	Consultant services for railroad traffic signal preemption for railroad grade crossing warning device projects.
111128 - BRO TR 162 Bean Rd CCET	Railroad grade crossings	Active grade crossing equipment installation/upgrade	1	Intersections	$196000	$196000	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	Railroad	Spot	Intersections	Improve RR signal to reduce train crashes
111132 - SAN CR 41 Greensburg Pike NOW	Railroad grade crossings	Active grade crossing equipment installation/upgrade	1	Intersections	$205127	$205127	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	Railroad	Spot	Intersections	Improve RR signal to reduce train crashes
108606 - HUR SR 99 Ridge St WE	Railroad grade crossings	Active grade crossing equipment installation/upgrade	1	Intersections	$346773	$346773	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	Railroad	Spot	Intersections	Improve RR signal to reduce train crashes

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108514 - STA TWP 322 Baymere WLE	Railroad grade crossings	Active grade crossing equipment installation/upgrade	1	Intersections	$497842	$497842	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	Railroad	Spot	Intersections	Improve RR signal to reduce train crashes
111179 - PER Industrial Rd OSRR	Railroad grade crossings	Active grade crossing equipment installation/upgrade	1	Intersections	$165133	$165133	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	Railroad	Spot	Intersections	Improve RR signal to reduce train crashes
102333 - MIA-CR25A VAR FY 2021	Roadside	Barrier- metal	2	Locations	$36	$179062	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	9,655	45	County Highway Agency	Systemic	Roadway Departure	Guardrail upgrades and installation to reduce fixed object crashes
106339 - CLI CR 103.15 Clarksville Road	Roadside	Roadside - other	0.3	Miles	$32689	$32689	HSIP (23 U.S.C. 148)	Rural	Minor Collector	1,065	45	County Highway Agency	Systemic	Roadway Departure	Roadside improvments to reduce fixed object crashes
106338 - CLI CR 127.96 Antioch Road	Roadside	Roadside - other	0.63	Miles	$993782	$1052955	HSIP (23 U.S.C. 148)	Rural	Minor Collector	1,880	45	County Highway Agency	Systemic	Roadway Departure	Roadside improvments to reduce fixed object crashes
109082 - WOO GR FY2021 County Grail repl	Roadside	Barrier- metal	1.29	Miles	$100000	$100000	HSIP (23 U.S.C. 148)	Rural	Major Collector	1,044	45	County Highway Agency	Systemic	Roadway Departure	Guardrail upgrades and installation to reduce fixed object crashes
111638 - D01 GR FY2021	Roadside	Barrier- metal	1	County	$900000	$1495270	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Interstate	50,447	70	State Highway Agency	Systemic	Roadway Departure	Guardrail upgrades and installation to reduce fixed object crashes
105947 - PER CR VAR GR FY2022	Roadside	Barrier- metal	1	County	$235000	$235000	HSIP (23 U.S.C. 148)	Rural	Minor Collector	1,887	0	County Highway Agency	Systemic	Roadway Departure	Guardrail upgrades and installation to reduce fixed object crashes
110333 - FUL CR Var GR-FY2022	Roadside	Barrier- metal	1	County	$265411	$265411	HSIP (23 U.S.C. 148)	Urban	Minor Collector	2,215	45	County Highway Agency	Systemic	Roadway Departure	Guardrail upgrades and installation to reduce fixed object crashes
105928 - MUS CR VAR GR FY2022	Roadside	Barrier- metal	1	County	$300000	$300000	HSIP (23 U.S.C. 148)	Urban	Minor Collector	5,091	45	County Highway Agency	Systemic	Roadway Departure	Guardrail upgrades and installation to reduce fixed object crashes

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113411 - FAY-VAR CR GR-FY22	Roadside	Barrier- metal	1	County	$300000	$300000	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	301	45	County Highway Agency	Systemic	Roadway Departure	Guardrail upgrades and installation to reduce fixed object crashes
113412 - MAD-VAR CR GR-FY22	Roadside	Barrier- metal	1	County	$300000	$300000	HSIP (23 U.S.C. 148)	Rural	Major Collector	2,236	55	County Highway Agency	Systemic	Roadway Departure	Guardrail upgrades and installation to reduce fixed object crashes
109810 - CLI VAR Guardrail FY 22	Roadside	Barrier- metal	1	County	$350000	$350000	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	813	45	County Highway Agency	Systemic	Roadway Departure	Guardrail upgrades and installation to reduce fixed object crashes
104680 - ADA CR VAR Guardrail FY22	Roadside	Barrier- metal	1	County	$376675	$376675	HSIP (23 U.S.C. 148)	Rural	Minor Collector	526	45	County Highway Agency	Systemic	Roadway Departure	Guardrail upgrades and installation to reduce fixed object crashes
111588 - TUS VAR GR Phase 5	Roadside	Barrier- metal	1	County	$400000	$400000	HSIP (23 U.S.C. 148)	Urban	Major Collector	276	0	County Highway Agency	Systemic	Roadway Departure	Guardrail upgrades and installation to reduce fixed object crashes
107227 - GAL CR VAR GR FY2022	Roadside	Barrier- metal	1	County	$276244	$300000	HSIP (23 U.S.C. 148)	Urban	Minor Collector	1,866	45	County Highway Agency	Systemic	Roadway Departure	Guardrail upgrades and installation to reduce fixed object crashes
105768 - FRA SR16 06.87 (at S-Hamilton)	Roadside	Roadside - other	1	Locations	$2929127	$4809503	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	27,964	35	City or Municipal Highway Agency	Spot	Intersections	Intersection improvements including ROW acquisition to increase safety and reduce congestion.
113339 - D04 PM R-WR FY2021	Roadway	Pavement surface – high friction surface	1	Locations	$16000	$796802	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Interstate	90,508	65	State Highway Agency	Systemic	Roadway Departure	Surface treatment to reduce wet pavement carshes
109232 - MED SR 0003 15.05	Roadway	Pavement surface - other	2.79	Miles	$195621	$7958561	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	20,941	55	State Highway Agency	Systemic	Roadway Departure	Pavement replacement and lane

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															modifications to reduce fixed object crashes.
108736 - CRA SR 0598 00.46 (Galion)	Roadway	Roadway widening - add lane(s) along segment	1	Intersections	$1020000	$4358393	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	10,000	55	City or Municipal Highway Agency	Spot	Intersections	Widen road to reduce fixed object crashes
112038 - GRE SR 72 8.71	Roadway	Rumble strips – edge or shoulder	5.77	Miles	$167617	$500040	HSIP (23 U.S.C. 148)	Rural	Minor Collector	3,806	55	State Highway Agency	Systemic	Roadway Departure	Install centerline and edgeline rumble stripes to reduce fixed object crashes
110986 - LOR CR 0658 00.00 Cleveland St	Roadway	Roadway narrowing (road diet, roadway reconfiguration)	3	Locations	$435125	$610808	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	10,924	0	City or Municipal Highway Agency	Systemic	Roadway Departure	Road diet to reduce intersection crashes
107684 - ALL/AUG US 30/SR 117 Var	Roadway	Pavement surface - other	12.28	Miles	$1123	$1123	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	10,527	65	State Highway Agency	Systemic	Roadway Departure	Pavement replacement to reduce fixed object crashes.
109306 - MER CR 70 0.00	Roadway	Roadway widening - travel lanes	2	Miles	$10013	$10013	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	602	45	County Highway Agency	Spot	Roadway Departure	Widen road to reduce fixed object crashes
75863 - MOT US 35 18.57	Roadway	Roadway widening - add lane(s) along segment	1.32	Miles	$25564	$25564	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other Freeways & Expressways	69,817	55	State Highway Agency	Spot	Roadway Departure	Widen road to reduce fixed object crashes
95497 - MUS SR 60 14.61/17.93	Roadway	Pavement surface - other	1	County	$76840	$76840	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	23,090	55	State Highway Agency	Systemic	Roadway Departure	Surface treatment to reduce fixed object crashes
115648 - ALL/HAN/VAN SR 696/235/116	Roadway	Roadway widening - travel lanes	0.86	Miles	$44640	$49600	HSIP (23 U.S.C. 148)	Rural	Minor Collector	2,201	55	State Highway Agency	Systemic	Roadway Departure	Widen 3 sections of road to reduce roadway departure crashes.
114697 - HAM CR 457 14.97 Harrison Ave	Roadway	Roadway narrowing (road diet, roadway reconfiguration)	1	Locations	$229421	$229421	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	14,959	25	City or Municipal Highway Agency	Systemic	Roadway Departure	Road diet to reduce intersection crashes
108240 - SUM Wooster Road West	Roadway	Roadway narrowing (road diet, roadway reconfiguration)	1	Locations	$829330	$991040	HSIP (23 U.S.C. 148)	Urban	Local Road or Street	13,066	0	City or Municipal Highway Agency	Systemic	Roadway Departure	Road diet to reduce intersection crashes

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111012 - SUM SR 0261 08.11	Roadway	Pavement surface - other	0.31	Miles	$1123318	$1646205	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	7,991	35	City or Municipal Highway Agency	Spot	Roadway Departure	Surface treatment to reduce fixed object crashes
107920 - POR US 0224 09.07	Roadway	Roadway narrowing (road diet, roadway reconfiguration)	1	Intersections	$24500	$38201	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	4,116	55	State Highway Agency	Spot	Intersections	Reducing road to a standard 2-lane road, realignment tominimize skew at intersection and cul-de-sac construction to reduce intersection crashes.
109672 - WOO CR-Var PM FY2021	Roadway delineation	Improve retroreflectivity	1	County	$50000	$50000	HSIP (23 U.S.C. 148)	Rural	Major Collector	1,261	45	County Highway Agency	Systemic	Lane Departure	Restripe roadway to reduce fixed object chrashes
102900 - MED-CR VAR PM FY2021	Roadway delineation	Improve retroreflectivity	1	County	$100000	$100000	HSIP (23 U.S.C. 148)	Urban	Minor Collector	6,064	0	County Highway Agency	Systemic	Lane Departure	Restripe roadway to reduce fixed object chrashes
104744 - PUT CR VAR PM FY22	Roadway delineation	Improve retroreflectivity	1	County	$100000	$100000	HSIP (23 U.S.C. 148)	Rural	Minor Collector	1,987	45	County Highway Agency	Systemic	Lane Departure	Restripe roadway to reduce fixed object chrashes
102316 - DAR-CR VAR PM FY2021	Roadway delineation	Improve retroreflectivity	1	County	$150000	$150000	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	14,501	55	County Highway Agency	Systemic	Lane Departure	Restripe roadway to reduce fixed object chrashes
111051 - STA PM 2022	Roadway delineation	Improve retroreflectivity	1	County	$150000	$150000	HSIP (23 U.S.C. 148)	Urban	Local Road or Street	589	0	County Highway Agency	Systemic	Lane Departure	Restripe roadway to reduce fixed object chrashes
102895 - HUR-CR VAR PM FY2021	Roadway delineation	Improve retroreflectivity	1	County	$194094	$194094	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	5,636	55	County Highway Agency	Systemic	Lane Departure	Restripe roadway to reduce fixed object chrashes
107225 - GAL CR VAR PM FY2021	Roadway delineation	Improve retroreflectivity	1	County	$417495	$417495	HSIP (23 U.S.C. 148)	Urban	Minor Collector	8,601	45	County Highway Agency	Systemic	Lane Departure	Restripe roadway to reduce fixed object chrashes

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105948 - PER CR VAR PM FY2022	Roadway delineation	Improve retroreflectivity	1	County	$351250	$377805	HSIP (23 U.S.C. 148)	Rural	Minor Collector	2,477	45	County Highway Agency	Systemic	Lane Departure	Restripe roadway to reduce fixed object chrashes
115312 - CUY/LAK PM FY2022 Safety	Roadway delineation	Improve retroreflectivity	1	County	$1848418	$1848418	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Interstate	155,971	60	State Highway Agency	Systemic	Lane Departure	Restripe roadway to reduce fixed object chrashes
112261 - POR Pavement Markings FY 2021	Roadway delineation	Improve retroreflectivity	1	County	$146913	$146913	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	9,960	45	County Highway Agency	Systemic	Lane Departure	Restripe roadway to reduce fixed object chrashes
113404 - FAY-VAR CR RPM-FY22	Roadway delineation	Raised pavement markers	1	County	$75000	$75000	HSIP (23 U.S.C. 148)	Urban	Minor Collector	1,049	45	County Highway Agency	Systemic	Lane Departure	Install raised pavement markers to reduce lane departure crashes.
115588 - MOE - 2022 CEAO Sign Upgrade	Roadway signs and traffic control	Sign sheeting - upgrade or replacement	1	County	$2160	$2160	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	0	State Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
113881 - MOE 2021 Curve Sign Upgrade	Roadway signs and traffic control	Curve-related warning signs and flashers	1	Curves	$2812	$2812	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	283	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce roadway departure.
115259 - DEL Radnor Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$3900	$3900	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115579 - MOE - 2022 CEAO Curve Sign Upgrd	Roadway signs and traffic control	Curve-related warning signs and flashers	1	County	$3940	$3940	HSIP (23 U.S.C. 148)	Rural	Minor Collector	435	0	State Highway Agency	Systemic	Roadway Departure	Install signage to reduce roadway departure.
113876 - WAY 2021 Sign Upgrade	Roadway signs and traffic control	Sign sheeting - upgrade or replacement	1	County	$4400	$4400	HSIP (23 U.S.C. 148)	Rural	Major Collector	8,108	45	State Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
115250 - HAN Cass Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$4892	$4892	HSIP (23 U.S.C. 148)	Urban	Local Road or Street	426	45	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115251 - HUR Richmond Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$5000	$5000	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115161 - TRU Vienna Township Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$5200	$5200	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	45	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes

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115194 - HAR Roundhead Township Sign Gran	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$5633	$5633	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	45	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115190 - RIC Sandusky Township Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$5900	$5900	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	45	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115049 - CLA Madison Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$6454	$6454	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	315	25	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115216 - FUL Dover Township Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$7385	$7385	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	2,626	55	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
113879 - GUE 2021 Curve Sign Upgrade	Roadway signs and traffic control	Curve-related warning signs and flashers	1	Curves	$7873	$7873	HSIP (23 U.S.C. 148)	Urban	Minor Collector	2,339	45	State Highway Agency	Spot	Roadway Departure	Install signage to reduce roadway departure.
114884 - SEN Bloom Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$8100	$8100	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	45	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115139 - FRA Pleasant Township Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$8298	$8298	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	145	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
114847 - ATB Ashtabula Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$9202	$9202	HSIP (23 U.S.C. 148)	Urban	Local Road or Street	0	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
113858 - CHP 2021 CEAO Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	County	$9547	$9547	HSIP (23 U.S.C. 148)	Urban	Local Road or Street	597	45	State Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
115215 - ATH Trimble Township Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$10124	$10124	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115037 - PAU Jackson Township Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$10751	$10751	HSIP (23 U.S.C. 148)	Rural	Minor Collector	308	55	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115591 - SEN - 2022 CEAO Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	County	$11184	$11184	HSIP (23 U.S.C. 148)	Urban	Local Road or Street	244	45	State Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
115199 - COL Washington Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$12113	$12113	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	231	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes

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115245 - COS Lafayette Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$12336	$12336	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
114630 - FAI Greenfield Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$12639	$12639	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115211 - HUR Lyme Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$13536	$13536	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115236 - LOR Camden Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$14000	$14000	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	272	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115226 - TUS Salem Township Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$14452	$14452	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115203 - JEF Smithfield Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$14850	$14850	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	45	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115248 - HOL Clark Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$16012	$16012	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	45	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115235 - COS Franklin Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$17345	$17345	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115256 - WOO Webster Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$18316	$18316	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	45	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115120 - MOE Center Township Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$18820	$18820	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115088 - PUT Blanchard Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$18981	$18981	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	45	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115590 - RIC - 2022 CEAO Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	County	$20000	$20000	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	14,726	55	State Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
115244 - CHP Jackson Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$21160	$21160	HSIP (23 U.S.C. 148)	Rural	Major Collector	475	45	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes

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113646 - GUE 2021 Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	County	$22320	$22320	HSIP (23 U.S.C. 148)	Urban	Major Collector	920	45	County Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
113872 - ROS 2021 Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	County	$30278	$30278	HSIP (23 U.S.C. 148)	Urban	Minor Collector	590	0	State Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
115581 - DAR - 2022 CEAO Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	County	$31000	$31000	HSIP (23 U.S.C. 148)	Rural	Minor Collector	687	0	State Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
113870 - NOB 2021 Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	County	$32000	$32000	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	0	State Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
115147 - KNO Pleasant Township Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$33131	$33131	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115254 - RIC Perry Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$33600	$33600	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	122	45	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115249 - POR Deerfield Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$34387	$34387	HSIP (23 U.S.C. 148)	Urban	Local Road or Street	0	45	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115247 - DEL Brown Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$34473	$34473	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115119 - JEF Island Creek Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$35211	$35211	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115237 - SCI Union Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$37458	$37458	HSIP (23 U.S.C. 148)	Urban	Local Road or Street	513	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115213 - OTT Carroll Township Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$39141	$39141	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	192	40	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115036 - CLI Clark Township Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$39172	$39172	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	80	45	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115253 - MED Chatham Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$40900	$40900	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	929	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes

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115223 - MUS Harrison Township Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$43739	$43739	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	45	State Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
115593 - WYA - CEAO 2022 Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	County	$44640	$44640	HSIP (23 U.S.C. 148)	Urban	Minor Collector	1,328	45	State Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
115189 - CLE Ohio Township Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$48270	$48270	HSIP (23 U.S.C. 148)	Urban	Local Road or Street	0	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
113859 - CLE 2021 Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	County	$50000	$50000	HSIP (23 U.S.C. 148)	Urban	Minor Collector	4,251	45	State Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
109111 - FRA-23-22.75 Signing	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Interchanges	$58567	$58567	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	80,176	45	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115252 - LAK Leroy Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$65500	$65500	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	105	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
114646 - GRE Silvercreek Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$69757	$69757	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	45	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115258 - ATB Kingsville Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$8765	$14591	HSIP (23 U.S.C. 148)	Urban	Local Road or Street	0	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115221 - BEL Union Township Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$2655	$3817	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	9	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115193 - WYA Antrim Township Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$16200	$17310	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	45	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115222 - HUR Clarksfield Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$19729	$20419	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115192 - ATB Lenox Township Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$9914	$9937	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115263 - TRU Farmington Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$13862	$13881	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	45	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes

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115210 - DAR Twin Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$6500	$6505	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115239 - SEN Thompson Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$17942	$17945	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	45	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115260 - KNO Middlebury Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$17903	$17904	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	104	0	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115093 - WOO Jackson Township Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$26139	$26141	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	249	45	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
115225 - PUT Liberty Township Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$13983	$13983	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	45	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
116317 - HOL-62-24.70	Roadway signs and traffic control	Roadway signs and traffic control - other	0.3	Miles	$7740	$8527	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	10,180	55	State Highway Agency	Spot	Intersections	Purchase of advance LED warning and stop signs for 0.30 miles around an intersection to reduce intersection crashes.
94438 - MED SR 0057 01.36	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$68126	$3906582	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Minor Arterial	11,909	55	State Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
93013 - LIC IR 70 19.47	Roadway	Pavement surface – high friction surface	1	Locations	$5000	$8562421	Other Federal-aid Funds (i.e. STBG, NHPP)	Rural	Principal Arterial-Interstate	30,392	70	State Highway Agency	Systemic	Roadway Departure	High friction surface treatment to reduce roadway departure crashes
91095 - WAY SR 0083 10.81	Roadway	Roadway - other	4.78	Miles	$230000	$30841090	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Other Freeways & Expressways	15,075	55	State Highway Agency	Systemic	Roadway Departure	Pavement replacement to reduce fixed object crashes.
98395 - MED SR 0003 03.80	Roadway	Pavement surface – high friction surface	5.9	Miles	$1000	$82897	Other Federal-aid Funds (i.e.	Urban	Minor Arterial	11,220	55	State Highway Agency	Systemic	Roadway Departure	High friction surface treatment to reduce roadway

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							STBG, NHPP)								departure crashes
98408 - MAH SR 0007 03.58	Roadway	Pavement surface - other	7.68	Miles	$1383	$100914	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Other	18,613	45	State Highway Agency	Systemic	Roadway Departure	High friction surface treatment to reduce roadway departure crashes
110585 - UNI/DEL/MAR-4-Var Parts 1&2	Roadway	Pavement surface – high friction surface	10	Miles	$500	$29407	Other Federal-aid Funds (i.e. STBG, NHPP)	Rural	Minor Arterial	5,395	55	State Highway Agency	Systemic	Roadway Departure	High friction surface treatment to reduce roadway departure crashes
102957 - RIC US 0042 13.13	Roadway	Pavement surface - other	8.72	Miles	$1613	$79851	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Other	9,785	55	State Highway Agency	Systemic	Roadway Departure	Resurfacing to redue fixed object crashes
112668 - MAH SR 0007 00.00	Roadway	Pavement surface – high friction surface	3.58	Miles	$19515	$866071	Other Federal-aid Funds (i.e. STBG, NHPP)	Rural	Minor Arterial	12,007	55	State Highway Agency	Systemic	Roadway Departure	Surface treatment to reduce fixed object carshes
108936 - HAM US 127 9.11 - Pt. 1	Roadway	Pavement surface - other	1.1	Miles	$801	$2632831	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Other	23,133	45	City or Municipal Highway Agency	Spot	Roadway Departure	Pavement replacement to reduce fixed object crashes.
107876 - HAN SR 12 0.00	Roadway	Pavement surface - other	11.96	Miles	$2000	$1820193	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Minor Collector	10,196	55	State Highway Agency	Systemic	Roadway Departure	Pavement replacement to reduce fixed object crashes.
94251 - ALL US 30 13.30	Roadway	Pavement surface - other	6.38	Miles	$6741	$4561229	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Other	12,172	65	State Highway Agency	Systemic	Roadway Departure	Pavement replacement to reduce fixed object crashes.
107564 - BEL SR 7 17.700	Roadway	Pavement surface - other	2.38	Miles	$5000	$2216500	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Other Freeways & Expressways	28,015	55	State Highway Agency	Systemic	Roadway Departure	Pavement replacement to reduce fixed object crashes.

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95786 - WIL SR 15 0.00 Resurf	Roadway	Pavement surface - other	4.34	Miles	$6984	$2536729	Other Federal-aid Funds (i.e. STBG, NHPP)	Rural	Principal Arterial-Other	4,577	55	State Highway Agency	Systemic	Roadway Departure	Pavement replacement to reduce fixed object crashes.
107928 - DEF SR 66 7.82	Roadway	Pavement surface - other	7.72	Miles	$6401	$1506267	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Minor Collector	7,354	55	State Highway Agency	Systemic	Roadway Departure	Pavement replacement to reduce fixed object crashes.
105194 - WAR SR 48/122 0.30/5.15	Roadway	Pavement surface - other	13.53	Miles	$13432	$3044475	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Other	11,065	55	State Highway Agency	Systemic	Roadway Departure	Pavement replacement to reduce fixed object crashes.
101390 - HUR SR 0061 06.70	Roadway	Pavement surface - other	13.09	Miles	$18648	$3649896	Other Federal-aid Funds (i.e. STBG, NHPP)	Rural	Minor Collector	3,739	55	State Highway Agency	Systemic	Roadway Departure	Pavement replacement to reduce fixed object crashes.
87264 - MEG US 33 10.720	Roadway	Pavement surface - other	8.63	Miles	$25038	$3624876	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Other	9,811	60	State Highway Agency	Systemic	Roadway Departure	Pavement replacement to reduce fixed object crashes.
94174 - GRE SR 72 14.48	Roadway	Pavement surface - other	4.53	Miles	$26184	$2930709	Other Federal-aid Funds (i.e. STBG, NHPP)	Rural	Minor Arterial	4,829	55	State Highway Agency	Systemic	Roadway Departure	Pavement replacement to reduce fixed object crashes.
102402 - COL US 30 0.000	Roadway	Pavement surface - other	9.4	Miles	$27072	$2931688	Other Federal-aid Funds (i.e. STBG, NHPP)	Rural	Principal Arterial-Other	4,576	35	State Highway Agency	Systemic	Roadway Departure	Pavement replacement to reduce fixed object crashes.
110049 - CLE SR 125 15.11	Roadway	Pavement surface - other	3.05	Miles	$10424	$1109005	Other Federal-aid Funds (i.e. STBG, NHPP)	Rural	Principal Arterial-Other	11,938	55	State Highway Agency	Systemic	Roadway Departure	Pavement replacement to reduce fixed object crashes.
112918 - ROS-50-0.00	Roadway	Pavement surface – high friction surface	4	Miles	$9072	$869813	Other Federal-aid Funds (i.e. STBG, NHPP)	Rural	Minor Arterial	3,450	55	State Highway Agency	Systemic	Roadway Departure	Surface treatment to reduce fixed object crashes

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105215 - HAM SR 32/SR 125 1.37/1.53	Roadway	Pavement surface - other	3.49	Miles	$17500	$1616282	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Other	34,394	50	State Highway Agency	Systemic	Roadway Departure	Surface treatment to reduce fixed object crashes
102668 - WAR 63/741 0.85/3.66	Roadway	Pavement surface – high friction surface	7.83	Miles	$28072	$2507009	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Minor Arterial	33,068	55	State Highway Agency	Systemic	Roadway Departure	Surface treatment to reduce fixed object crashes
112915 - PIK/SCI-104-0.00/17.43 PV	Roadway	Pavement surface – high friction surface	6.79	Miles	$14614	$1210680	Other Federal-aid Funds (i.e. STBG, NHPP)	Rural	Minor Collector	3,189	55	State Highway Agency	Systemic	Roadway Departure	Surface treatment to reduce fixed object crashes
112993 - JAC-35-18.92	Roadway	Pavement surface – high friction surface	5.02	Miles	$57711	$3650116	Other Federal-aid Funds (i.e. STBG, NHPP)	Rural	Principal Arterial-Other	13,948	60	State Highway Agency	Systemic	Roadway Departure	Surface treatment to reduce fixed object crashes
107494 - CAR SR 542 0.000	Roadway	Pavement surface – high friction surface	5.05	Miles	$28305	$1782440	Other Federal-aid Funds (i.e. STBG, NHPP)	Rural	Minor Collector	988	55	State Highway Agency	Systemic	Roadway Departure	Surface treatment to reduce fixed object crashes
109838 - JAC-32-0.00	Roadway	Pavement surface - other	6.4	Miles	$46480	$2803803	Other Federal-aid Funds (i.e. STBG, NHPP)	Rural	Principal Arterial-Other	6,337	60	State Highway Agency	Systemic	Roadway Departure	Surface treatment to reduce fixed object crashes
110062 - PIC-23-0.00	Roadway	Pavement surface – high friction surface	5.4	Miles	$150000	$6315799	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Other	27,022	60	State Highway Agency	Systemic	Roadway Departure	Surface treatment to reduce fixed object crashes
87684 - LOR SR 0010 00.00	Roadway	Pavement surface - other	6.24	Miles	$257543	$10376232	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Other Freeways & Expressways	34,339	65	State Highway Agency	Systemic	Roadway Departure	Surface treatment to reduce fixed object crashes
79761 - MED US 0042 01.89	Roadway	Pavement surface - other	10.74	Miles	$466920	$17928562	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Other	21,880	60	State Highway Agency	Systemic	Roadway Departure	Surface treatment to reduce fixed object crashes

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109649 - ERI CR 0058 00.00	Alignment	Alignment - other	1	Intersections	$333000	$333000	Penalty Funds (23 U.S.C. 164)	Rural	Major Collector	3,030	0	County Highway Agency	Spot	Intersections	Realignment to provide a 55 MPH roadway.
106411 - HAM IR 275 28.29 - Part 1	Interchange design	Interchange design - other	1	Interchanges	$2840000	$10710791	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Interstate	109,393	60	State Highway Agency	Spot	Intersections	Interchange improvements to reduce angle and rear end crashes
110423 - BUT SR 4 10.83	Intersection geometry	Intersection realignment	1	Intersections	$83309	$1948122	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	22,305	55	State Highway Agency	Spot	Intersections	Widening intersection to reduce intersection crashes
106981 - WAR US 22 7.12	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	$121229	$1471496	Penalty Funds (23 U.S.C. 164)	Urban	Minor Collector	12,337	55	State Highway Agency	Spot	Intersections	Construct left turn lanes to reduce left turn, angle and rear end crashes
110458 - BUT SR 4 13.90	Intersection geometry	Add/modify auxiliary lanes	3	Locations	$539579	$697219	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	20,063	55	State Highway Agency	Systemic	Intersections	Intersection improvments to reduce intersection crashes
108640 - GRE US 42 3.15	Intersection geometry	Intersection geometry - other	1	Intersections	$434486	$516886	Penalty Funds (23 U.S.C. 164)	Rural	Minor Arterial	9,636	60	State Highway Agency	Spot	Intersections	Construct restricted crossing u turns to reduce speed related crashes
113688 - HAN SR 15 25.30/27.17	Intersection geometry	Intersection geometry - other	2	Intersections	$550000	$550000	Penalty Funds (23 U.S.C. 164)	Rural	Principal Arterial-Other	13,472	65	State Highway Agency	Spot	Intersections	Intersection improvments to reduce intersection crashes
108084 - SUM Portage Trail Ext.	Intersection geometry	Add/modify auxiliary lanes	0.78	Miles	$937734	$937734	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	19,880	35	City or Municipal Highway Agency	Spot	Intersections	Add TWLTL to reduce intersection crashes
110422 - CLE SR 32 8.95	Intersection geometry	Innovative Intersection (e.g. MUT, RCUT, QR)	1	Intersections	$2647710	$5306411	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other Freeways & Expressways	36,358	55	State Highway Agency	Spot	Intersections	Intersection improvments with RCUT to reduce intersection crashes

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112040 - STA CR 0224 04.36 (Dressler Rd)	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	$661436	$661436	Penalty Funds (23 U.S.C. 164)	Urban	Minor Arterial	28,696	35	County Highway Agency	Spot	Intersections	Widening, adding dual left turn lanes, and lengthening turn lanes to reduce intersection crashes
113741 - LUC CR 22 8.0 Bancrft & Mcord	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$28956	$1074612	Penalty Funds (23 U.S.C. 164)	Urban	Minor Arterial	14,204	45	County Highway Agency	Spot	Intersections	Convert to a roundabout to reduce intersection crashes
113645 - MUS CR 2004 00.54	Intersection traffic control	Systemic improvements – signal-controlled	3	Intersections	$50810	$1032966	Penalty Funds (23 U.S.C. 164)	Urban	Minor Arterial	12,798	25	City or Municipal Highway Agency	Systemic	Intersections	Intersection improvments to reduce intersection crashes
109637 - OTT SR 163 33.85 Roundabout	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$197000	$2175827	Penalty Funds (23 U.S.C. 164)	Urban	Minor Collector	8,217	55	State Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
110445 - DEL-36-4.97 (at SR 257)	Intersection traffic control	Modify control – new traffic signal	1	Intersections	$37627	$212440	Penalty Funds (23 U.S.C. 164)	Rural	Minor Arterial	6,772	55	State Highway Agency	Spot	Intersections	Install a traffic signal to increase safety and reduce congestion.
110898 - ERI SR 0004 04.65	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$111700	$460065	Penalty Funds (23 U.S.C. 164)	Rural	Minor Arterial	12,697	55	State Highway Agency	Spot	Intersections	Construct roundabout to reduce rear end crashes
113715 - BUT CR 18 6.87	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$17838	$71013	Penalty Funds (23 U.S.C. 164)	Urban	Minor Collector	9,387	45	County Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
102059 - BUT SR 73 13.05	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$56272	$207481	Penalty Funds (23 U.S.C. 164)	Rural	Minor Arterial	6,363	55	State Highway Agency	Spot	Intersections	Construct Roundabout to reduce angle crashes
110852 - CUY US 322 15.59 Safety	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	$195094	$571159	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	15,007	45	Other Local Agency	Spot	Intersections	Intersection improvments to reduce intersection crashes

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110510 - GAL SR 160 9.570	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$910000	$1716768	Penalty Funds (23 U.S.C. 164)	Rural	Minor Collector	4,849	55	State Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
114370 - PAU/VAN US 30 0.00/0.00 Signs	Intersection traffic control	Intersection signing – add enhanced advance warning (double-up and/or oversize)	18	Intersections	$150000	$279242	Penalty Funds (23 U.S.C. 164)	Rural	Principal Arterial-Other	13,439	65	State Highway Agency	Spot	Intersections	Install signage to reduce intersection crashes
102028 - MED SR 0018 15.99	Intersection traffic control	Modify traffic signal – modernization/replacement	6	Intersections	$4620091	$8173719	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	26,917	55	State Highway Agency	Spot	Intersections	Upgrade existing signal hardware to reduce rear end crashes
103416 - HAM Plainfield Rd Roundabouts	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$4800000	$8142502	Penalty Funds (23 U.S.C. 164)	Urban	Minor Arterial	20,054	0	City or Municipal Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
111007 - POR SR 0082 05.84	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$1564632	$2260534	Penalty Funds (23 U.S.C. 164)	Rural	Minor Collector	5,378	45	State Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
110357 - HUR US 0020 17.82	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$1440000	$1775251	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	5,859	55	State Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
99580 - LOR CR 0032 02.92 (Middle Rdg)	Intersection traffic control	Modify control – new traffic signal	1	Intersections	$27110	$27110	Penalty Funds (23 U.S.C. 164)	Urban	Minor Arterial	0	35	County Highway Agency	Spot	Intersections	Install a traffic signal and adjust grade to increase safety and reduce congestion.
112222 - SAN US 20 20.80 roundabout	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$752917	$1022486	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	14,053	60	State Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
112158 - MOT-49-7.27	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	$346316	$384795	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	13,421	50	City or Municipal Highway Agency	Spot	Intersections	Replace existing traffic signal and add pedestrian accomodations to reduce pedestrain crashes.
112127 - LUC CR 566 0.00 Gibbs St	Intersection traffic control	Modify control – Compact/Mini-roundabout	1	Intersections	$172420	$188385	Penalty Funds (23 U.S.C. 164)	Urban	Local Road or Street	6,261	0	City or Municipal	Spot	Intersections	Installation of a compact roundabout and

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												Highway Agency			pedestrain accomodations to reduce fixed object and pedestrian crashes.
114056 - ERI US 0006 09.07	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$952875	$952875	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	11,509	35	City or Municipal Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
114044 - SUM Olde Eight/Twinsburg	Intersection traffic control	Modify control – new traffic signal	1	Intersections	$115650	$115650	Penalty Funds (23 U.S.C. 164)	Urban	Minor Collector	7,253	0	County Highway Agency	Spot	Intersections	Install a traffic signal to increase safety and reduce congestion.
113873 - GEA Washington St/Haskins Signal	Intersection traffic control	Modify control – new traffic signal	1	Intersections	$238657	$238657	Penalty Funds (23 U.S.C. 164)	Urban	Local Road or Street	2,317	0	County Highway Agency	Spot	Intersections	Install a traffic signal to increase safety and reduce congestion.
107234 - FRA CR 17 (Morse Rd) 4.16	Intersection traffic control	Modify traffic signal timing – general retiming	1	Intersections	$506700	$506700	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	30,837	45	City or Municipal Highway Agency	Spot	Intersections	Improve safety and reduce congestion with signal modifications, pavement markings and the addition of a westbound left turn lane.
114034 - D8 Safety Studies 2020	Miscellaneous	Transportation safety planning	1	Study	$63000	$70000	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Interstate	101,967	65	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
109892 - STW Multi-Modal Design Guide	Miscellaneous	Miscellaneous - other	1	Design Guide	$65183	$72425	Penalty Funds (23 U.S.C. 164)	N/A	N/A	0	0	State Highway Agency	Design Guide	Design Guide	Develop a multi-modal design guide for ODOT's L&D manual.
113712 - HAM CR 23 1.42	Pedestrians and bicyclists	Install sidewalk	1.03	Miles	$106067	$309658	Penalty Funds (23 U.S.C. 164)	Urban	Local Road or Street	0	0	City or Municipal Highway Agency	Systemic	Pedestrians	Install sidewalks to reduce pedestrian crashes

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113363 - BUT Middletown Bike Lanes FY21	Pedestrians and bicyclists	On road bicycle lane	1.42	Miles	$316856	$574284	Penalty Funds (23 U.S.C. 164)	Urban	Minor Collector	1,072	25	City or Municipal Highway Agency	Systemic	Bicyclists	Connecting existing bikepaths to reduce bike crashes
113293 - FRA-Columbus-PSIP-FY2021	Pedestrians and bicyclists	Pedestrians and bicyclists – other	1	Intersections	$2400120	$2466207	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	24,146	35	State Highway Agency	Systemic	Pedestrians	Improve pedestrian facilities to reduce pedestrian crashes
110995 - BUT GMRT Extension	Pedestrians and bicyclists	Pedestrians and bicyclists – other	10.6	Miles	$461049	$473649	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	24,513	55	County Highway Agency	Systemic	Bicyclists	Construct a Shared use path to reduce bike crashes
108639 - WAR SR 48 13.64	Pedestrians and bicyclists	Leading pedestrian interval	1	Intersections	$581492	$581492	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	18,123	35	City or Municipal Highway Agency	Spot	Pedestrians	Install intersection lighting, leading pedestrian intervals, high-visibility crosswalks and curb extensions to reduce pedestrian crashes.
108642 - FRA-Cleveland Ave Ped Improve	Pedestrians and bicyclists	Pedestrian signal	1	Intersections	$611814	$611814	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	25,477	35	City or Municipal Highway Agency	Spot	Pedestrians	Upgrade pedestrian accommodations including crosswalks and pedestrian signals to reduce pedstrian crashes.
108862 - VIN CR VAR GR FY21	Roadside	Barrier- metal	1	Locations	$4286	$191639	Penalty Funds (23 U.S.C. 164)	Rural	Major Collector	351	0	County Highway Agency	Systemic	Roadway Departure	Guardrail upgrades and installation to reduce fixed object crashes
111195 - D06 City NHS Guardrail Upgrade	Roadside	Barrier- metal	1	Locations	$420000	$836716	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other Freeways & Expressways	38,933	70	State Highway Agency	Systemic	Roadway Departure	End guardrail improvements to reduce fixed object crashes

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112968 - FRA-161-18.63 Cable Barrier	Roadside	Barrier – cable	4.51	Miles	$1202896	$1209221	Penalty Funds (23 U.S.C. 164)	N/A	N/A	0	0	City or Municipal Highway Agency	Systemic	Roadway Departure	Install cable barrier to reduce fixed object crashes
110334 - WOO GR FY2022 County Grail Repl	Roadside	Barrier- metal	1	County	$100000	$100000	Penalty Funds (23 U.S.C. 164)	Rural	Major Collector	1,044	45	County Highway Agency	Systemic	Roadway Departure	Guardrail upgrades and installation to reduce fixed object crashes
102321 - LOG-CR VAR GR FY 2021	Roadside	Barrier- metal	1	County	$300000	$300000	Penalty Funds (23 U.S.C. 164)	Rural	Minor Collector	4,459	55	County Highway Agency	Systemic	Roadway Departure	Guardrail upgrades and installation to reduce fixed object crashes
109304 - HAS VAR GR Phase 1	Roadside	Barrier- metal	1	County	$300000	$300000	Penalty Funds (23 U.S.C. 164)	Rural	Major Collector	83	0	County Highway Agency	Systemic	Roadway Departure	Guardrail upgrades and installation to reduce fixed object crashes
109737 - RIC US 0030 17.11	Roadway	Roadway widening - add lane(s) along segment	0.15	Miles	$44500	$457978	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other Freeways & Expressways	16,151	60	State Highway Agency	Spot	Roadway Departure	Add a deceleration lane to reduce fixed object crashes
101909 - LIC CR VAR PM FY2021	Roadway delineation	Improve retroreflectivity	1	County	$111630	$111630	Penalty Funds (23 U.S.C. 164)	Urban	Minor Collector	9,457	35	County Highway Agency	Systemic	Lane Departure	Restripe roadway to reduce fixed object chrashes
101866 - ADA CR VAR PM FY21	Roadway delineation	Improve retroreflectivity	1	County	$150000	$150000	Penalty Funds (23 U.S.C. 164)	Rural	Minor Collector	475	45	County Highway Agency	Systemic	Lane Departure	Restripe roadway to reduce fixed object chrashes
109243 - TUS VAR PM Phase 4	Roadway delineation	Improve retroreflectivity	1	County	$150000	$150000	Penalty Funds (23 U.S.C. 164)	Rural	Minor Collector	679	0	County Highway Agency	Systemic	Lane Departure	Restripe roadway to reduce fixed object chrashes
109811 - CLI VAR Pavement Markings FY 22	Roadway delineation	Improve retroreflectivity	1	County	$240000	$240000	Penalty Funds (23 U.S.C. 164)	Rural	Local Road or Street	267	45	County Highway Agency	Systemic	Lane Departure	Restripe roadway to reduce fixed object chrashes
115089 - ASD Sullivan Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$14384	$20469	Penalty Funds (23 U.S.C. 164)	Rural	Local Road or Street	112	45	State Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes

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101005 - D01 PM FY21	Roadway	Restripe roadway to revise separation between opposing lanes and/or shoulder widths	1	Locations	$700	$49224	State and Local Funds	Urban	Principal Arterial-Interstate	42,418	70	State Highway Agency	Systemic	Lane Departure	Restripe roadway to reduce fixed object chrashes
97046 - LOR SR 0083 04.17	Roadway	Pavement surface - other	6.32	Miles	$28953	$2601796	State and Local Funds	Rural	Minor Collector	7,837	55	State Highway Agency	Systemic	Roadway Departure	Surface treatment to reduce fixed object crashes
114081 - D04 PM R-WR FY2022	Roadway delineation	Improve retroreflectivity	112.55	Miles	$64025	$2920001	State and Local Funds	Urban	Principal Arterial-Interstate	39,896	70	State Highway Agency	Systemic	Lane Departure	Restripe roadway to reduce fixed object chrashes
110467 - BUT SR 73 18.08	Access management	Change in access - close or restrict existing access	0.24	Miles	$262962	$633444	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	13,353	45	State Highway Agency	Spot	Roadway Departure	Implement access management by closing driveways and restricting driveway movements to reduced fixed object crashes.
114620 - GUE IR 70 08.80	Interchange design	Installation of new lane on ramp	1	Locations	$59218	$395827	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Interstate	32,786	70	State Highway Agency	Spot	Intersections	Add a lane to reduce intersection crashes
103954 - CLE 32-3.50	Interchange design	Convert at-grade intersection to interchange	1.71	Miles	$2741944	$43255333	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Other	42,779	55	State Highway Agency	Spot	Intersections	Construct at grade interchange to reduce intersection crashes.
111020 - SAN US 6/20I 14.87/0.00 Grp B	Interchange design	Acceleration / deceleration / merge lane	1	Interchanges	$1168850	$4768873	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	11,195	60	State Highway Agency	Spot	Roadway Departure	Reconfigure interchange to reduce crashes
106406 - FRA-104-4.43	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	$2124	$75891	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	11,281	55	State Highway Agency	Spot	Intersections	Construct left turn lanes to reduce left turn, angle and rear end crashes
110459 - BUT SR 122 10.33	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	$67346	$1030147	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	18,504	45	State Highway Agency	Spot	Intersections	Add lane to increase sight distance and reduce

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															intersection crashes
113722 - WAR CR 38 1.15	Intersection geometry	Innovative Intersection (e.g. MUT, RCUT, QR)	1	Intersections	$41604	$256757	HSIP (23 U.S.C. 148)	Urban	Minor Collector	0	0	County Highway Agency	Spot	Intersections	Intersection improvments to reduce intersection crashes
113721 - WAR SR 741 17.21	Intersection geometry	Innovative Intersection (e.g. MUT, RCUT, QR)	1	Intersections	$85489	$204960	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	16,867	50	County Highway Agency	Spot	Intersections	Intersection improvments to reduce intersection crashes
110424 - BUT SR 4 12.30	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	$6635	$208196	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	24,513	55	State Highway Agency	Spot	Intersections	Add right turn lanes to reduce intersection crashes
110378 - FRA-3-22.90 (at Morse Rd)	Intersection geometry	Intersection geometry - other	1	Intersections	$74009	$706350	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	18,521	45	City or Municipal Highway Agency	Spot	Intersections	Intersection improvement to increase safety and reduce congestion
115439 - CUY US 006/020 21.10 Safety	Intersection geometry	Intersection geometry - other	1	Intersections	$105857	$962573	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	25,122	35	State Highway Agency	Systemic	Intersections	Signal timing along the corridor to reduce crashes.
114818 - MAR-95-17.90 (at Jamesway)	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	$50000	$402953	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	18,813	45	State Highway Agency	Spot	Intersections	Construct turn lanes and rebuild signal to reduce intersection crashes.
110409 - FAI SR 158 07.25	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	$299677	$2085197	HSIP (23 U.S.C. 148)	Rural	Minor Collector	4,787	55	State Highway Agency	Spot	Intersections	Construct turn lanes and rebuild signal to reduce intersection crashes.
109329 - LIC US 62 00.49	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	$205207	$1346390	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	12,342	50	State Highway Agency	Spot	Intersections	Construct turn lanes and clear zone-graded slope to reduce intersection crashes.

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106829 - RIC CR 0134 05.80 (Ck/Mans-Luc)	Intersection geometry	Intersection geometry - other	1	Intersections	$200000	$1299508	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	9,278	45	County Highway Agency	Spot	Intersections	Intersection safety improvement to reduce crashes.
104502 - DEL US36 18.79 (at Galena)	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	$585000	$1661150	State and Local Funds	Rural	Principal Arterial-Other	14,384	55	State Highway Agency	Spot	Intersections	Widen road to provide left turn lanes, replace signal, add intersection lighting and dilemma zone detection to reduce intersection crashes.
110996 - CLI US 22 11.75 - Pt. 1	Intersection traffic control	Modify traffic signal – modernization/replacement	2	Intersections	$1253054	$9411582	State and Local Funds	Urban	Minor Arterial	9,771	50	City or Municipal Highway Agency	Spot	Intersections	Intersection improvments to reduce intersection crashes
110469 - CLE-131-2.09	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	$45555	$290524	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	11,184	40	State Highway Agency	Spot	Intersections	Intersection improvments to reduce intersection crashes
114006 - MED SR 0083 03.43	Intersection traffic control	Modify traffic signal –other	1	Intersections	$10000	$41233	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	4,745	35	Other Local Agency	Spot	Intersections	Improve intersection controls to reduce intersection crashes
110589 - TRU US 0062 07.47	Intersection traffic control	Intersection traffic control - other	1	Intersections	$96537	$330625	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	10,649	55	State Highway Agency	Spot	Intersections	Intersection improvments to reduce intersection crashes
110274 - WAS Marietta Signals/Fiber Ph. 2	Intersection traffic control	Modify traffic signal – modernization/replacement	31	Locations	$24063	$777500	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Other	31,017	45	City or Municipal Highway Agency	Systemic	Intersections	Intersection improvments to reduce intersection crashes
110991 - HAM SR 32 6.82	Intersection traffic control	Modify control – new traffic signal	1	Intersections	$200000	$5084021	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	18,825	55	State Highway Agency	Spot	Intersections	Install a traffic signal and adjust grade to increase safety

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															and reduce congestion.
110993 - BUT TR 21 2.90	Intersection traffic control	Modify control – new traffic signal	2	Intersections	$66240	$1580542	HSIP (23 U.S.C. 148)	Urban	Minor Collector	6,117	45	County Highway Agency	Spot	Intersections	Install a traffic signal and adjust grade to increase safety and reduce congestion.
110912 - SEN US 224 3.64 Roundabout Grp B	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$73249	$1552530	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	5,558	55	State Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
111088 - LIC SR 13 09.54	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$117000	$1450519	State and Local Funds	Urban	Principal Arterial-Other	7,152	35	City or Municipal Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
109129 - ASD US 0250 12.74	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$200000	$1973100	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	7,589	50	State Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
108619 - MOT SR 725 14.41	Intersection traffic control	Modify control – new traffic signal	1	Intersections	$120000	$1173084	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	29,189	50	State Highway Agency	Spot	Intersections	Install a traffic signal and sidewalk to increase safety and reduce congestion.
111631 - ALL Main Street/Market Street	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$200000	$1102071	HSIP (23 U.S.C. 148)	Urban	Minor Collector	7,547	25	City or Municipal Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
112923 - HOC SR 664 15.650	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	$179872	$699253	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	9,527	35	State Highway Agency	Spot	Intersections	Install a right turn lane, upgrade signal heads and upgrade detection to reduce crashes and improve congestion.
111657 - GRE-68-13.51	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$100000	$376693	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	8,719	55	State Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes

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110472 - LOG-47/235-5.23/8.18	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	$1000000	$2707512	HSIP (23 U.S.C. 148)	Rural	Minor Collector	3,498	55	State Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
112063 - CUY IR 090 03.56 WB Interchange	Intersection traffic control	Modify control – new traffic signal	1	Intersections	$2000000	$4349591	State and Local Funds	Urban	Principal Arterial-Interstate	89,182	60	City or Municipal Highway Agency	Spot	Intersections	Install a traffic signal to increase safety and reduce congestion.
115294 - STW 2022 CEAO Safety Studies	Miscellaneous	Transportation safety planning	1	Study	$100000	$670730	HSIP (23 U.S.C. 148)	N/A	N/A	0	0	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
115968 - WIL-49-2.01 Safety Study	Miscellaneous	Transportation safety planning	1	Study	$9548	$22912	HSIP (23 U.S.C. 148)	Rural	Minor Collector	1,907	35	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
115918 - ERPC Summary and Screening 2021	Miscellaneous	Transportation safety planning	1	Study	$15656	$31951	State and Local Funds	N/A	N/A	0	0	State Highway Agency	Study	Data	Crash summary report and priority location screening for ERPC
105034 - D03 SRTS Perkins Township Inf	Pedestrians and bicyclists	Install new crosswalk	0.738	Miles	$20250	$501946	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Minor Collector	5,366	45	Town or Township Highway Agency	Spot	Pedestrians	Install sidewalk to reduce pedestrian crashes
111202 - HAM US 127 9.67	Pedestrians and bicyclists	Pedestrians and bicyclists – other	1	Locations	$343	$6725	State and Local Funds	Urban	Principal Arterial-Other	20,896	25	City or Municipal Highway Agency	Systemic	Pedestrians	Various pedestrian improvments to reduce pedestrian crashes
113934 - ATH SR 13 11.330	Pedestrians and bicyclists	Pedestrians and bicyclists – other	0.32	Miles	$13528	$117190	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	5,254	35	State Highway Agency	Spot	Pedestrians	Intersection improvments to reduce pedestrian crashes
109659 - FRA-70-20.29 (Courtright Rd.)	Pedestrians and bicyclists	Install sidewalk	0.25	Miles	$4500	$78599	HSIP (23 U.S.C. 148)	Urban	Minor Collector	11,465	0	State Highway Agency	Spot	Pedestrians	Install sidewalk to reduce pedestrian crashes
107235 - TRU Warren Signal Upgrade	Pedestrians and bicyclists	Pedestrian signal	78	Signal heads	$108840	$1484602	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	16,253	40	City or Municipal	Systemic	Pedestrians	Install school zone flashers, replace

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												Highway Agency			pedestrian signals, install pedestrian signals and a HAWK to reduce pedestrian crashes.
113474 - FAI CR 9/TR 222 01.60/00.00	Pedestrians and bicyclists	Install sidewalk	0.56	Miles	$25440	$341312	HSIP (23 U.S.C. 148)	Urban	Minor Collector	3,096	0	City or Municipal Highway Agency	Spot	Pedestrians	Install sidewalk to reduce pedestrian crashes
103293 - SUM CR 0017 16.51	Pedestrians and bicyclists	Pedestrians and bicyclists – other	1	Locations	$219609	$1194060	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	18,102	0	City or Municipal Highway Agency	Spot	Pedestrians	Contruction of a shared use path to reduce pedestrian and bicycle crashes.
106645 - AUG St. Marys US33 Ped Bridge	Pedestrians and bicyclists	Pedestrian bridge	0.39	Miles	$1000000	$3508544	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Minor Arterial	8,489	35	City or Municipal Highway Agency	Spot	Pedestrians	Construct a ped and bike way with pedestrian bridge to reduce pedestrian crashes.
111364 - HAM Highland Ave IORY	Railroad grade crossings	Active grade crossing equipment installation/upgrade	1	Intersections	$9462	$290900	Other Federal-aid Funds (i.e. STBG, NHPP)	N/A	N/A	0	0	Railroad	Spot	Intersections	Improve RR signal to reduce train crashes
103423 - HAM E. Sharon Rd NS	Railroad grade crossings	Railroad grade crossings - other	1	Intersections	$43040	$894233	Other Federal-aid Funds (i.e. STBG, NHPP)	N/A	N/A	0	0	Railroad	Spot	Intersections	Improve RR signal with premption to reduce train crashes
113504 - SUM GR FY2022 CEAO	Roadside	Barrier- metal	5.3	Miles	$104037	$300000	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	14,175	0	County Highway Agency	Systemic	Roadway Departure	Guardrail upgrades and installation to reduce fixed object crashes
110164 - GEA County-wide Safety Projects	Roadway	Roadway widening - add lane(s) along segment	1	Township	$500000	$12288740	Other Federal-aid Funds (i.e. STBG, NHPP)	Rural	Minor Arterial	8,661	55	County Highway Agency	Systemic	Roadway Departure	Widening the roadway to reduce roadway departure crashes
103753 - WAR SR 741 2.19	Roadway	Roadway - other	1	Miles	$500000	$6625281	Other Federal-aid Funds (i.e.	Urban	Minor Arterial	14,659	50	City or Municipal	Systemic	Roadway Departure	Lane widening and traffic control

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
							STBG, NHPP)					Highway Agency			improvements to reduce fixed object and rear end crashes.
98462 - HUR US 0250 05.10	Roadway	Rumble strips – center	14.74	Miles	$19552	$246655	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Other	8,713	65	State Highway Agency	Systemic	Roadway Departure	Various roadway improvments to reduce fixed object crashes
98570 - MED SR 0018 00.00	Roadway	Pavement surface - other	9.69	Miles	$14194	$46335	Other Federal-aid Funds (i.e. STBG, NHPP)	Rural	Principal Arterial-Other	9,823	55	State Highway Agency	Systemic	Roadway Departure	Resurfacing and bridge maintance to redue fixed object crashes
88970 - PIK-SR 32-3.04	Roadway	Pavement surface - other	6.88	Miles	$35591	$78515	Other Federal-aid Funds (i.e. STBG, NHPP)	Rural	Principal Arterial-Other	5,382	60	State Highway Agency	Systemic	Lane Departure	Smooth seal roads and reduce roadway departure crashes
109678 - CLI SR 350 4.20	Roadway	Pavement surface - other	3.71	Miles	$28432	$835981	Other Federal-aid Funds (i.e. STBG, NHPP)	Rural	Minor Collector	2,486	55	State Highway Agency	Systemic	Roadway Departure	Surface treatment to reduce fixed object crashes
102489 - BEL IR 70 15.720	Roadway	Pavement surface - other	3.48	Miles	$227657	$6213134	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Interstate	47,700	70	State Highway Agency	Systemic	Roadway Departure	Surface treatment to reduce fixed object crashes
107799 - FRA-71-25.61, FRA-270-24.55	Roadway	Pavement surface - other	1.14	Miles	$254409	$6507036	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Interstate	151,830	70	State Highway Agency	Spot	Roadway Departure	Surface treatment to reduce fixed object crashes
91097 - CRA US 0030 15.80	Roadway	Pavement surface - other	6.41	Miles	$276741	$6685443	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Other Freeways & Expressways	20,458	70	State Highway Agency	Systemic	Roadway Departure	Surface treatment to reduce fixed object crashes
105513 - UNI 33 12.590	Roadway	Pavement surface - other	11.96	Miles	$395400	$9264520	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Other Freeways & Expressways	47,883	70	State Highway Agency	Systemic	Roadway Departure	Surface treatment to reduce fixed object crashes

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
101090 - CLA-40/4-9.85/5.53	Roadway	Pavement surface – high friction surface	6.73	Miles	$240920	$5264486	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Other Freeways & Expressways	31,251	70	State Highway Agency	Systemic	Roadway Departure	Surface treatment to reduce fixed object crashes
105381 - SHE IR 75 8.67	Roadway	Pavement surface - other	10.16	Miles	$392913	$8434864	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Interstate	47,631	70	State Highway Agency	Systemic	Roadway Departure	Surface treatment to reduce fixed object crashes
112921 - LAW-52-15.00 PV	Roadway	Pavement surface - other	3	Miles	$196147	$4134887	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Other Freeways & Expressways	24,360	55	State Highway Agency	Systemic	Roadway Departure	Surface treatment to reduce fixed object crashes
105341 - CLA IR 70 6.69	Roadway	Pavement surface – high friction surface	3.86	Miles	$147791	$2922477	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Interstate	57,125	70	State Highway Agency	Systemic	Roadway Departure	Surface treatment to reduce fixed object crashes
88830 - ALL US 30 1.13	Roadway	Pavement surface - other	12.17	Miles	$621519	$6972538	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Other	15,540	65	State Highway Agency	Systemic	Roadway Departure	Surface treatment to reduce fixed object crashes
109072 - MAD US 42 12.350	Roadway	Roadway widening - travel lanes	1.08	Miles	$180000	$924974	Other Federal-aid Funds (i.e. STBG, NHPP)	Rural	Principal Arterial-Other	10,346	55	State Highway Agency	Spot	Roadway Departure	Widen road to reduce fixed object crashes
109074 - DEL-42-2.28	Roadway	Rumble strips – edge or shoulder	4.61	Miles	$1060767	$4823148	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Other	12,617	55	State Highway Agency	Systemic	Roadway Departure	Install centerline and edgeline rumble stripes to reduce fixed object crashes
104487 - LUC CR 1572 4.71 Holand-Syl M&F	Roadway	Pavement surface - other	0.5	Miles	$138000	$448278	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Minor Arterial	17,859	40	City or Municipal Highway Agency	Spot	Roadway Departure	Resurfacing roadway and consctructing sidewalk to reduce fixed object crashes.
115230 - MED/WAY SR 0301 00.00/06.89	Roadway	Roadway widening - travel lanes	4.29	Miles	$116925	$279892	HSIP (23 U.S.C. 148)	Rural	Minor Collector	3,067	55	State Highway Agency	Systemic	Lane Departure	Shoulder widening to accommodate buggy traffic and

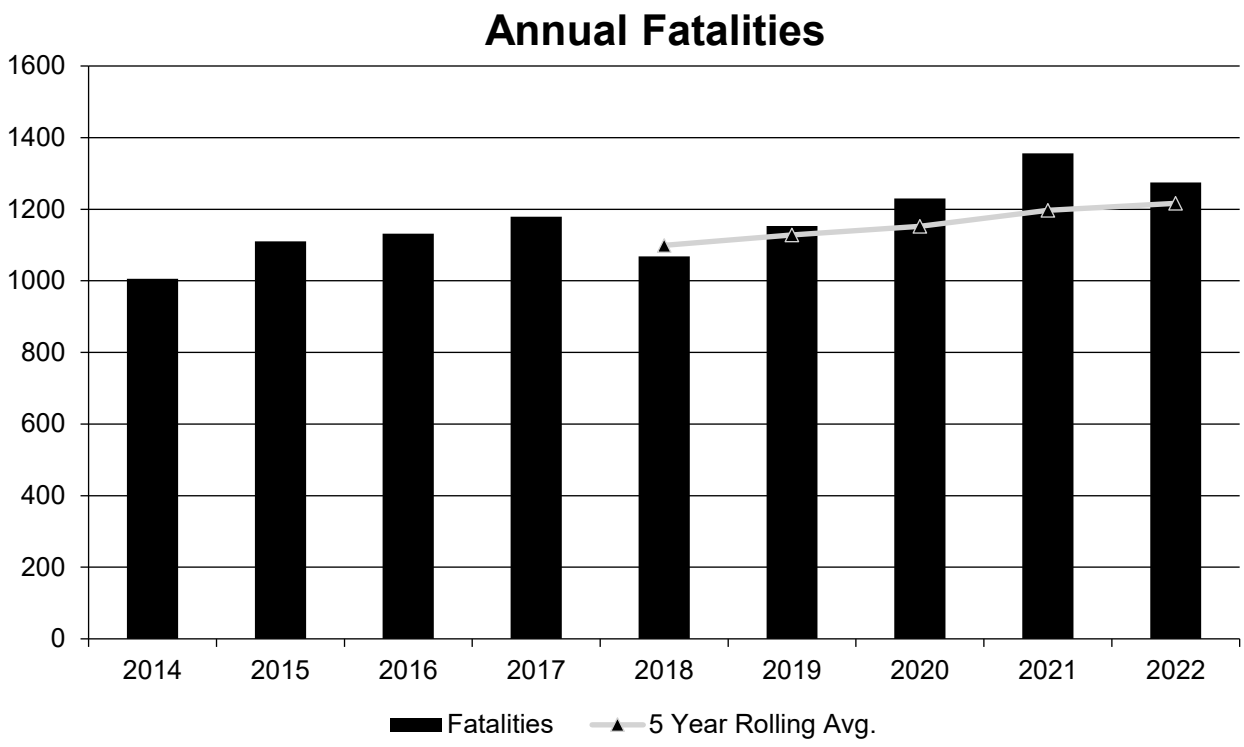
PROJECT NAME	IMPROVEMENT CATEGORY	SUBCATEGORY	OUTPUTS	OUTPUT TYPE	HSIP PROJECT COST($)	TOTAL PROJECT COST($)	FUNDING CATEGORY	LAND USE/AREA TYPE	FUNCTIONAL CLASSIFICATION	AADT	SPEED	OWNERSHIP	METHOD FOR SITE SELECTION	SHSP EMPHASIS AREA	SHSP STRATEGY
															reduce fixed object crashes.
114110 - D06 RWR PM Retrofit FY22	Roadway delineation	Improve retroreflectivity	117.51	Miles	$61975	$1898129	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Interstate	131,084	70	State Highway Agency	Systemic	Lane Departure	Restripe roadway to reduce fixed object chrashes
114852 - D08-R/WR PM-FY2022	Roadway delineation	Improve retroreflectivity	44.76	Miles	$150644	$1740003	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Interstate	132,654	65	State Highway Agency	Systemic	Lane Departure	Restripe roadway to reduce fixed object chrashes
112171 - HAM Eastern Corridor VAR TSG	Roadway delineation	Roadway delineation - other	39	Locations	$50000	$338605	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	34,394	55	State Highway Agency	Systemic	Lane Departure	Low cost improvements to 39 locations including signing and signal upgrades.
102938 - LUC 75/280/475 Var Deck Sealing	Roadway delineation	Improve retroreflectivity	1	County	$536040	$2087077	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Interstate	94,959	65	State Highway Agency	Systemic	Lane Departure	Restripe roadway to reduce fixed object chrashes
115233 - ALL Amanda Township Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	$304	$2604	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	45	State Highway Agency	Spot	Roadway Departure	Install signage to reduce fixed object crashes
94393 - ERI SR 0113 06.84	Shoulder treatments	Widen shoulder – paved or other (includes add shoulder)	1.05	Miles	$18053	$168864	State and Local Funds	Urban	Minor Collector	7,296	55	State Highway Agency	Spot	Bicyclists	Widen shoulders to provide bike lanes
110460 - PRE SR 177 0.70	Shoulder treatments	Widen shoulder – paved or other (includes add shoulder)	1	Curves	$2077	$8220	State and Local Funds	Rural	Minor Collector	1,412	55	State Highway Agency	Spot	Roadway Departure	Improve sight distance to reduce fixed object crashes

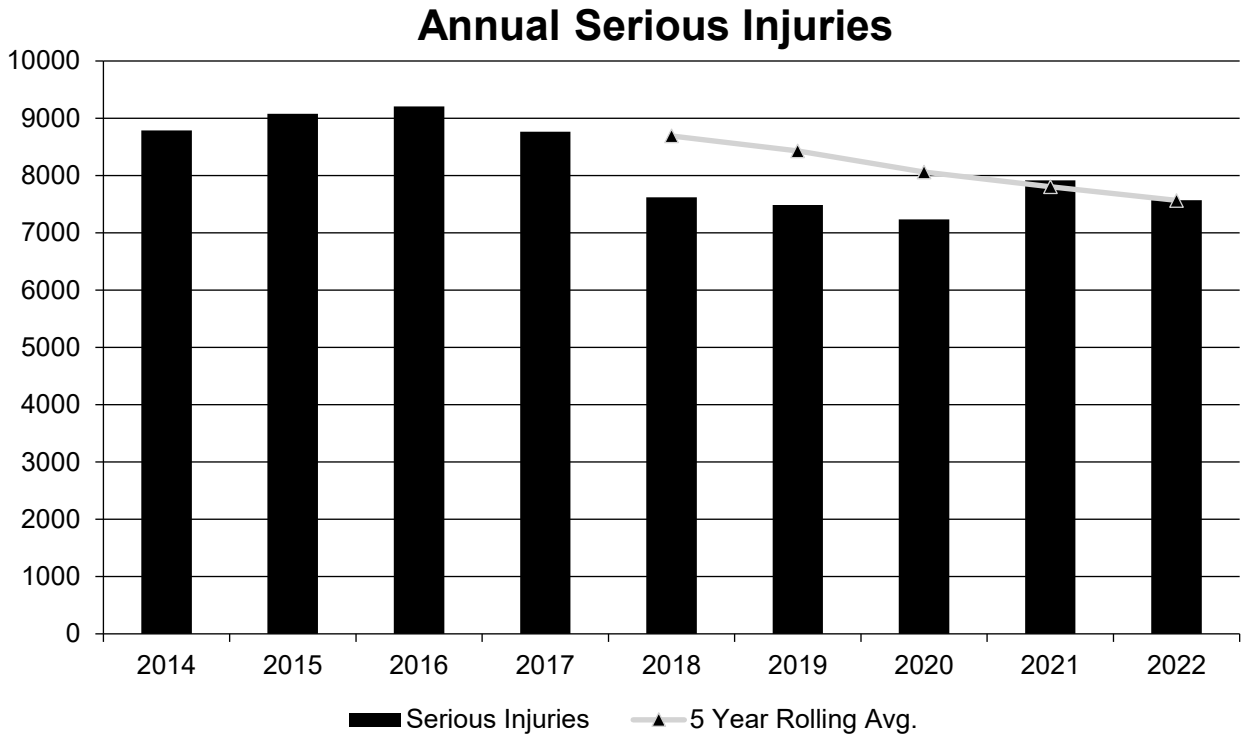
Safety Performance

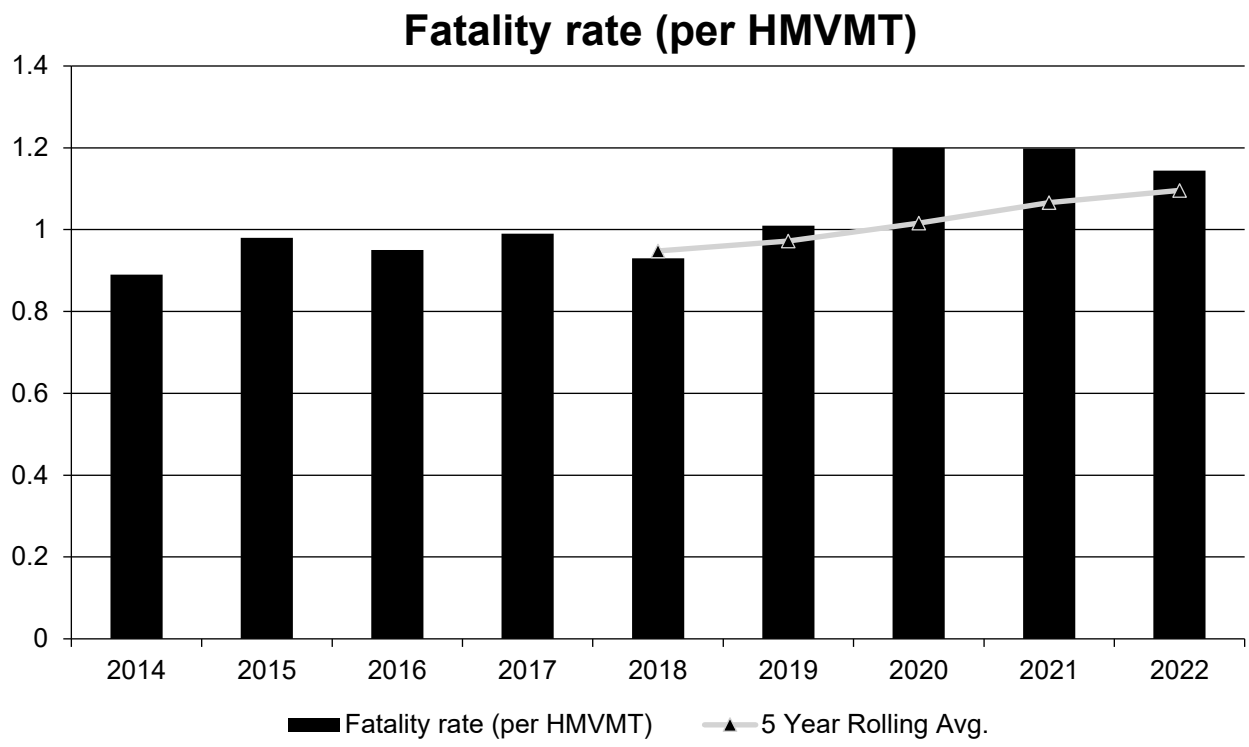
General Highway Safety Trends

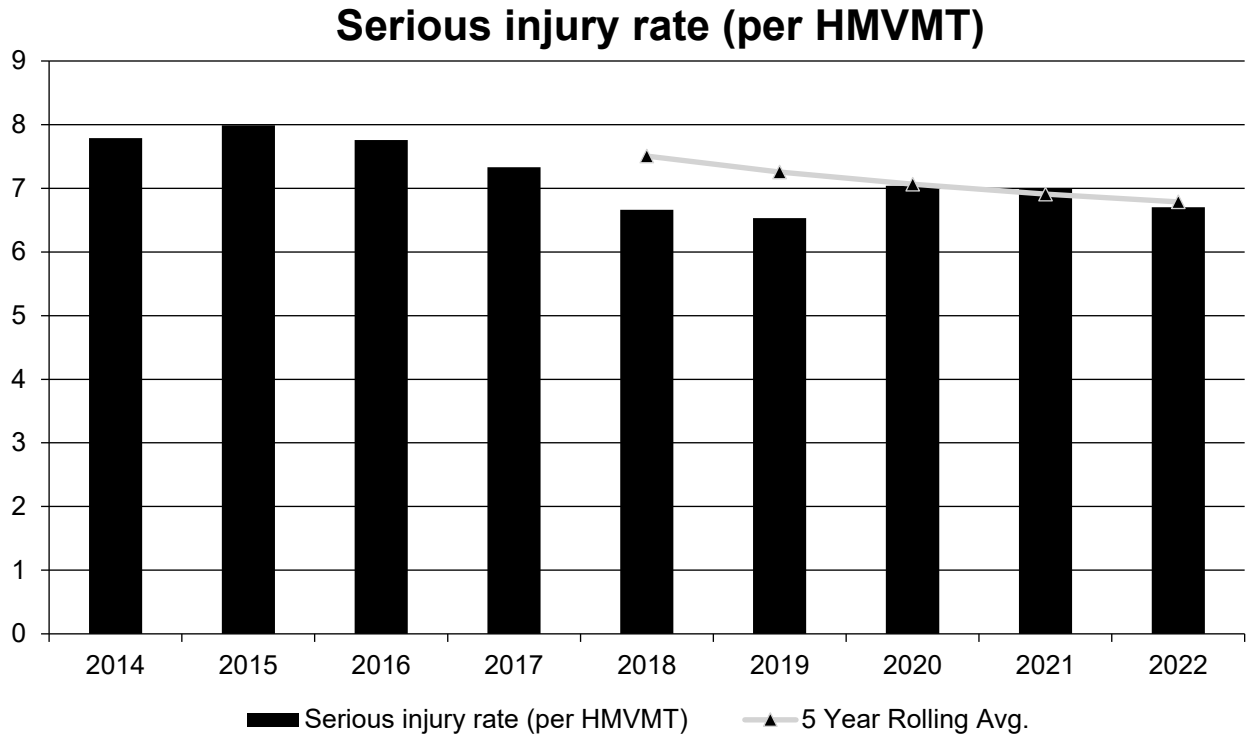
Present data showing the general highway safety trends in the State for the past five years.

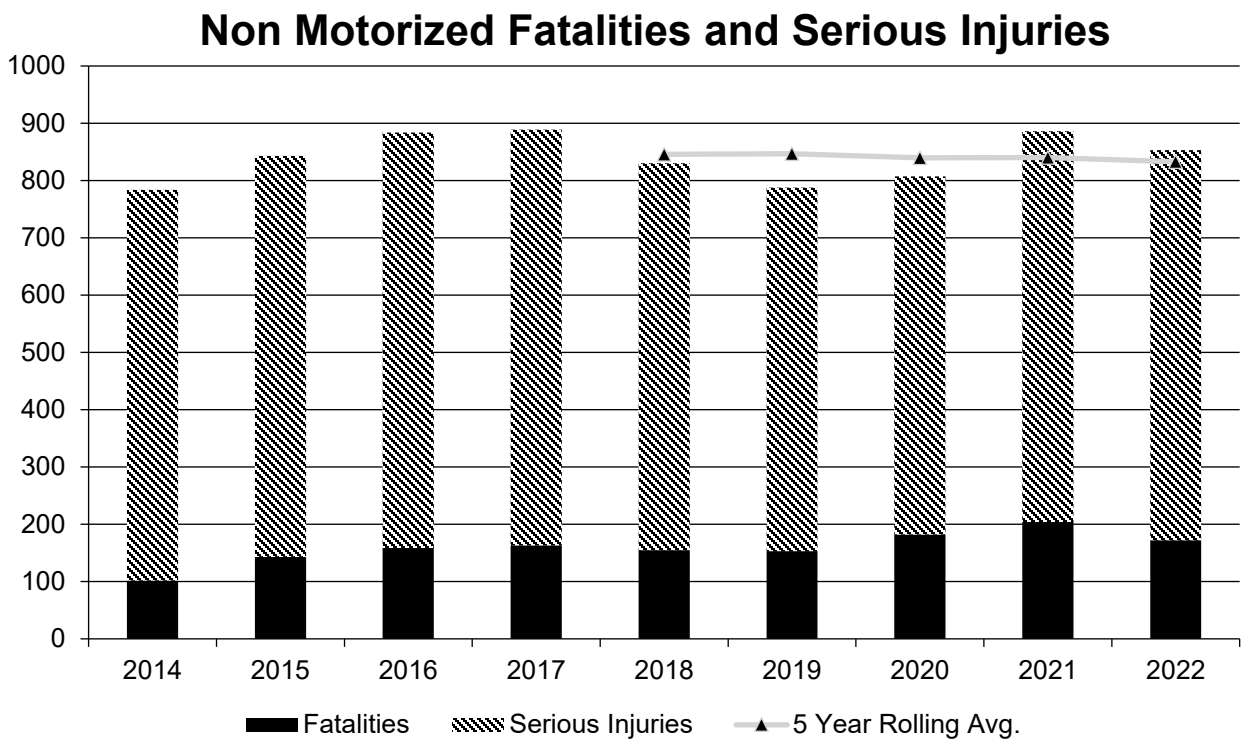
PERFORMANCE MEASURES	2014	2015	2016	2017	2018	2019	2020	2021	2022
Fatalities	1,006	1,110	1,132	1,179	1,068	1,153	1,230	1,356	1,275
Serious Injuries	8,785	9,079	9,207	8,763	7,623	7,487	7,237	7,916	7,570
Fatality rate (per HMVMT)	0.890	0.980	0.950	0.990	0.930	1.010	1.200	1.198	1.144
Serious injury rate (per HMVMT)	7.790	7.990	7.760	7.330	6.660	6.530	7.040	6.995	6.703
Number non-motorized fatalities	102	143	159	163	155	153	182	204	172
Number of non-motorized serious injuries	682	700	725	726	675	635	625	682	681


Annual Fatalities
1600
1400
1200
1000
800
600
400
200
0
2014
2015
2016
2017
2018
2019
2020
2021
2022
Fatalities
5 Year Rolling Avg.


Annual Serious Injuries
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
2014
2015
2016
2017
2018
2019
2020
2021
2022
Serious Injuries
5 Year Rolling Avg.


Fatality rate (per HMVMT)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
2014
2015
2016
2017
2018
2019
2020
2021
2022
Fatality rate (per HMVMT)
5 Year Rolling Avg.


Serious injury rate (per HMVMT)
9
8
7
6
5
4
3
2
1
0
2014
2015
2016
2017
2018
2019
2020
2021
2022
Serious injury rate (per HMVMT)
5 Year Rolling Avg.



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	39	134.8	0.45	1.56
Rural Principal Arterial (RPA) - Other Freeways and Expressways	9.4	42.2	0.48	2.13
Rural Principal Arterial (RPA) - Other	60.8	260	1.37	5.81
Rural Minor Arterial	76.6	373.6	1.84	8.98
Rural Minor Collector	41	215.6	2.55	13.42
Rural Major Collector	166.8	881.4	2.18	11.54

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	109.8	552.8	1.98	10.01
Urban Principal Arterial (UPA) - Interstate	103	570.8	0.43	2.36
Urban Principal Arterial (UPA) - Other Freeways and Expressways	31.2	176.8	0.49	2.79
Urban Principal Arterial (UPA) - Other	172.8	1,274.6	1.28	9.45
Urban Minor Arterial	173.8	1,314	1.31	9.88
Urban Minor Collector	6.2	41.6	1.19	7.95
Urban Major Collector	115.4	816.2	1.23	8.68
Urban Local Road or Street	102.8	752.4	0.96	7.06

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	503.8	2,597.2		
County Highway Agency	210.6	1,112.2		
Town or Township Highway Agency	75	413.2		
City or Municipal Highway Agency	406.4	3,274.4		
State Park, Forest, or Reservation Agency				
State Toll Authority	12.4	39.6		
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:1196.0

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

See additional comments.

Number of Serious Injuries:7418.0

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

See additional comments.

Fatality Rate:1.070

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

See additional comments.

Serious Injury Rate:6.640

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

See additional comments.

Total Number of Non-Motorized Fatalities and Serious Injuries:852.0

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

See additional comments.

After reviewing historical crash trends, external factors and through consultation with ODOT's partners, the Strategic Highway Safety Plan Steering Committee recommended that Ohio move to a 2 percent annual reduction target across all five categories.

Although the 2% annual target will be difficult to achieve across all five categories, the SHSP Steering Committee feels it's an aspirational target, but achievable. Therefore, the target that Ohio has set forth for each of the performance measures a 2% reduction from the 2018-2022 baseline.

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

ODOT has established a replicable annual process to review the previous year’s targets and establish new targets. This process is outlined in an annual letter to our partners, which includes the SHSP Steering Committee, The Ohio Department of Public Safety (HSP), MPOs and RTPOs. We also conduct meetings and discussions with various partners to set both state and regional targets for the year. ODOT has developed an automated spreadsheet tool that allows MPO’s and RTPO’s to analyze regional crash data and explore their own performance targets.

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
Number of Fatalities	1106.0	1216.4
Number of Serious Injuries	7744.0	7566.6
Fatality Rate	0.970	1.096
Serious Injury Rate	6.780	6.786
Non-Motorized Fatalities and Serious Injuries	808.0	832.8

Goals and Targets below are based on the five-year rolling average.

Number of Fatalities
2022 Target: 1,106
2022 Actual: 1,216.4

State did not meet target.

Number of Serious Injuries
2022 Target: 7,744
2022 Actual: 7,566.6

State met target.

Fatality Rate
2022 Target: 0.970
2022 Actual: 1.096

State did not meet target.

Serious Injury Rate
2022 Target: 6.780
2022 Actual: 6.786

State did not meet target.

Number of non-motorized fatalities and serious injuries

2022 Target: 808.0
2022 Actual: 832.8

State did not meet target.

Applicability of Special Rules

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

Yes

In FFY 2022, ODOT was subject to the Vulnerable Road User (VRU) Special Rule and is currently developing a Vulnerable Road User Safety Assessment to be finalized no later than November 15, 2023. ODOT plans to use a data-driven process to identify areas of high-risk for vulnerable road users and will continue to consult with local governments, metropolitan planning organizations (MPOs), regional transportation planning organizations (RTPOs), and other internal and external partners.

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

No

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	166	178	158	181	184	209	210
Number of Older Driver and Pedestrian Serious Injuries	861	821	772	711	652	733	760

Evaluation

Program Effectiveness

How does the State measure effectiveness of the HSIP?

- Benefit/Cost Ratio
- Change in fatalities and serious injuries

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

Ohio routinely evaluates crash trends, quarterly and annually, to determine the effectiveness of its Highway Safety Improvement Program. In 2022, Ohio had 1,275 traffic deaths, representing a 5.9% decrease and 7,570 serious injuries, representing a 4.3% decrease respectively compared to 2021.

Based on the project evaluations in 2018 our estimated safety benefits are $310 Million with a cost of $63.4 Million. The ratio of the safety benefits and project cost equates to a benefit-cost ratio of 4.90, thus showing a net benefit in safety projects.

We also track our statewide progress in implementing systematic safety treatments that target serious crash types and roadway features that can potentially increase the likelihood of crashes. This program element has been successful in reducing crashes based on the naïve before-and-after results for the different systematic treatments. In addition, we have increased our efforts to complete systematic projects on locally maintained roads by working with MPOs, County Engineers and LTAP to provide technical assistance and funding for local road safety improvements.

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

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

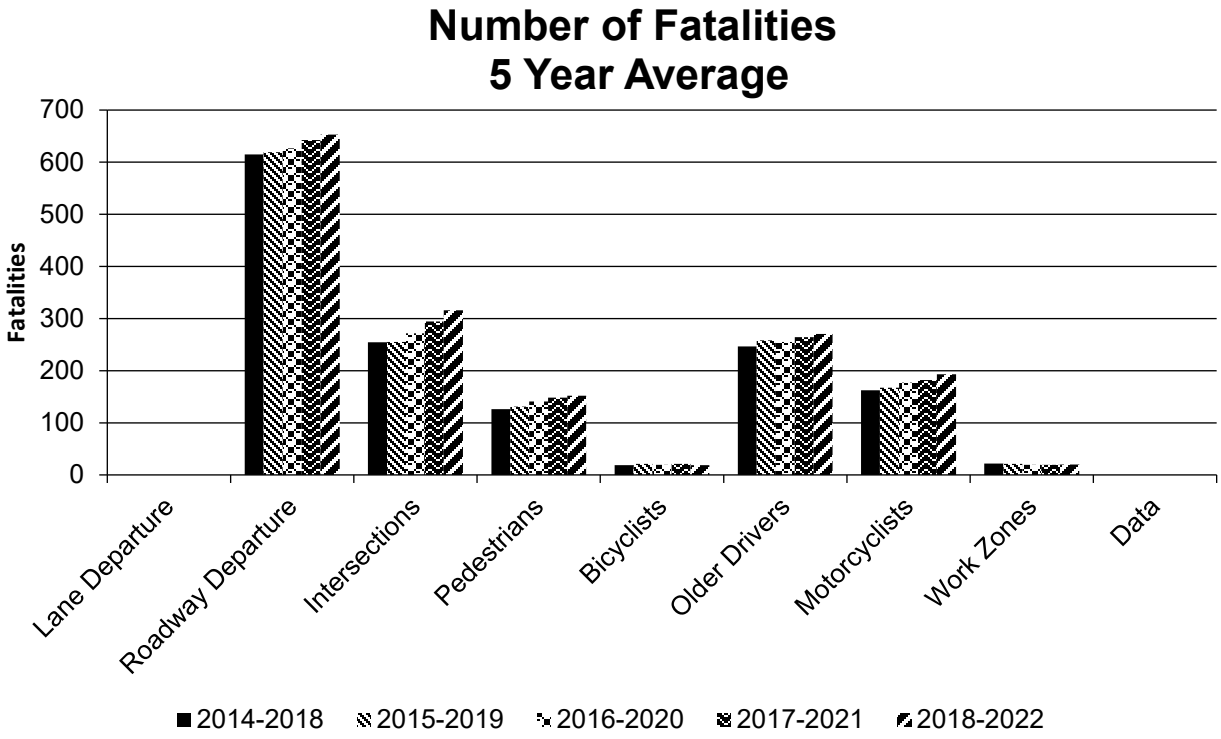
Effectiveness of Groupings or Similar Types of Improvements

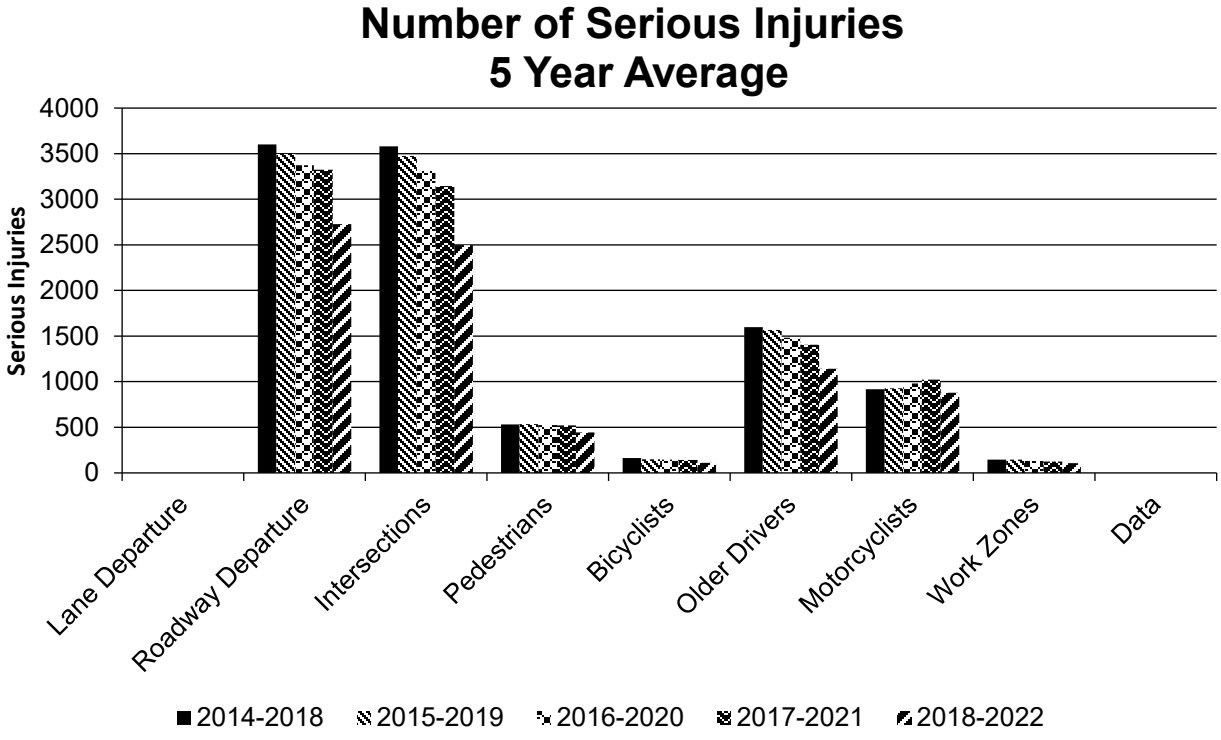
Present and describe trends in SHSP emphasis area performance measures.

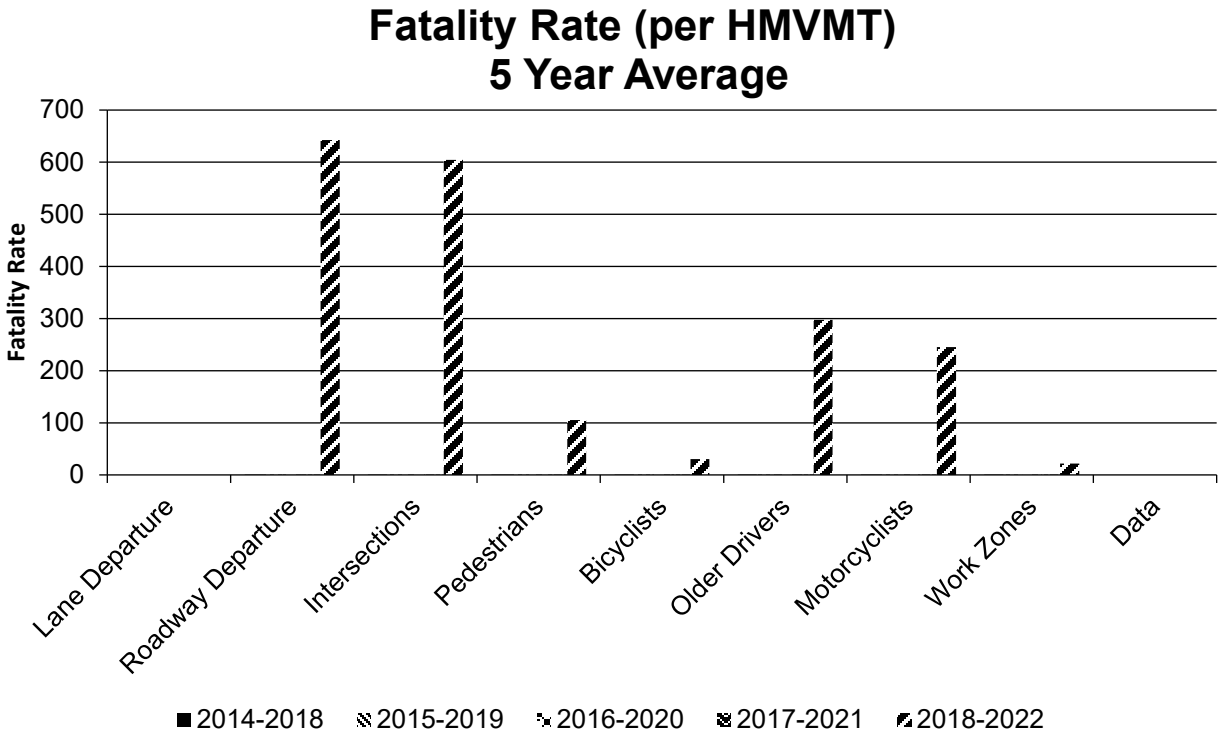
Year 2022

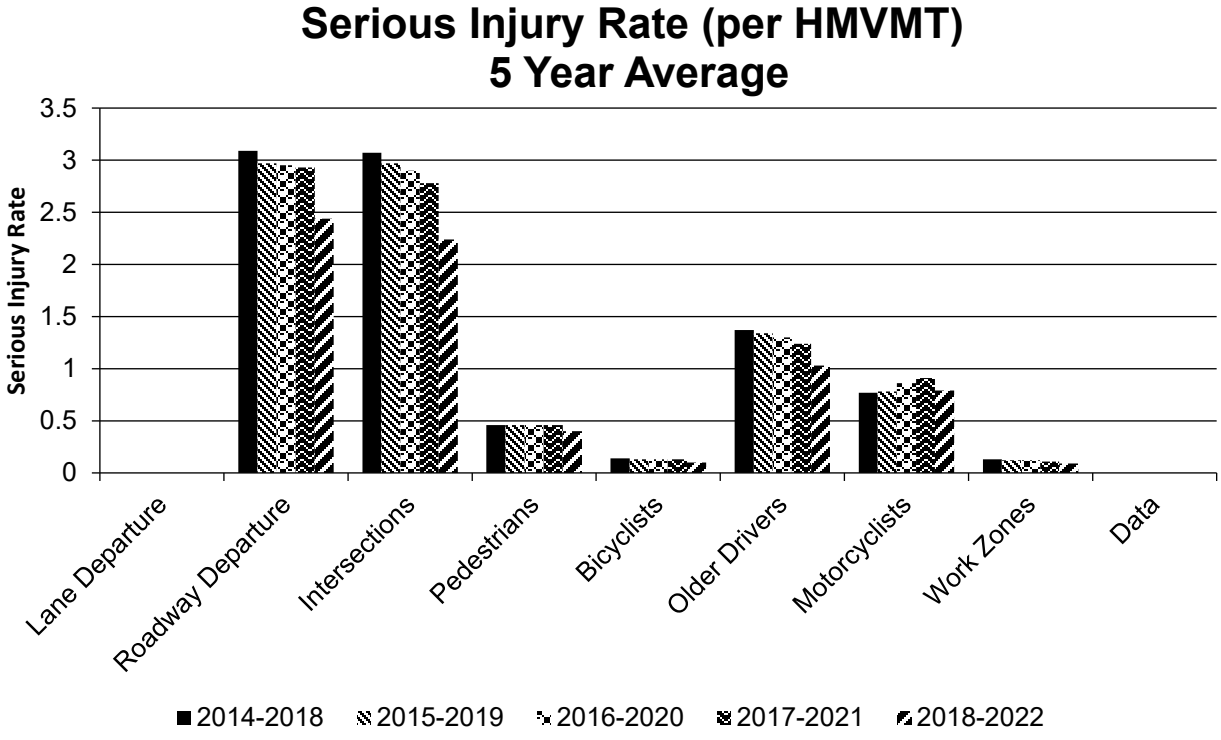
SHSP Emphasis Area	Targeted Crash Type	Number of Fatalities (5-yr avg)	Number of Serious Injuries (5-yr avg)	Fatality Rate (per HMVMT) (5-yr avg)	Serious Injury Rate (per HMVMT) (5-yr avg)
Lane Departure			0	0	0
Roadway Departure		653	2,729.2	642.26	2.44
Intersections		315.8	2,495	604.44	2.24

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)
Pedestrians		152	444.2	105.51	0.4
Bicyclists		19	110	30.42	0.1
Older Drivers		270.6	1,141	297.59	1.03
Motorcyclists		193.2	878	245.14	0.79
Work Zones		20	106	21.61	0.09
Data			0	0	0


Number of Fatalities
5 Year Average
Fatalities
700
600
500
400
300
200
100
0
Lane Departure
Roadway Departure
Intersections
Pedestrians
Bicyclists
Older Drivers
Motorcyclists
Work Zones
Data
2014-2018
2015-2019
2016-2020
2017-2021
2018-2022


Number of Serious Injuries
5 Year Average
Serious Injuries
4000
3500
3000
2500
2000
1500
1000
500
0
Lane Departure
Roadway Departure
Intersections
Pedestrians
Bicyclists
Older Drivers
Motorcyclists
Work Zones
Data
2014-2018
2015-2019
2016-2020
2017-2021
2018-2022





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

No

In 2018, ODOT selected a contractor to identify, develop, and implement an appropriate approach to before-after safety project evaluation that can be applied to ODOT's Highway Safety Improvement Program (HSIP) projects or any other completed project(s) of interest to ODOT. The evaluation approach will quantify project effectiveness in terms of crash frequency reduction and percentage crash frequency reduction overall, by crash severity level, and by crash type. The recommended project evaluation approach will be:

- Scientifically sound
- Applicable to evaluation of individual projects and to crash modification factor (CMF) development
- Consistent with HSM guidance, FHWA HSIP requirements, and ODOT needs and preferences

The project has completed a literature review and surveyed other states for best practices. Results have been posted here:

http://www.dot.state.oh.us/Divisions/Planning/ProgramManagement/HighwaySafety/HSIP/Pages/HSIPEval.aspx

Four (4) projects were piloted with the following methods to determine project safety performance:

- Simple Before-and-After Method
- Before-and-After Study with Traffic Volume Correction
- Empirical Bayes Method
    - AASHTOWare Safety Analyst
    - Ohio's Economic Crash Analysis Tool (ECAT)
    - IHSDM

The project team is currently reviewing the results of the pilot projects to identify the method best suited for Ohio in the future. It is believed the Before and After Study with Traffic Volume Correction will be best suited for Ohio's effectiveness, but it will become more evident with more data collection. This will be the third year evaluating projects this way. Future analysis will reveal if this is the best to continue analyzing project effectiveness.

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)
76938 - FAI US 33 05.60(Carroll Area)	Rural Principal Arterial (RPA) - Other Freeways and Expressways	Interchange design	Convert at-grade intersection to interchange	4.00					1.00			4.00	1.00	-0.118728282573247
92747 - WOO US 20 4.63 Resurf/Bridge	Urban Principal Arterial (UPA) - Other	Intersection geometry	Add/modify auxiliary lanes	75.00	56.00	1.00	1.00	11.00	3.00	38.00	15.00	125.00	75.00	32.3448280002509
92895 - RIC SR 0097 06.01	Urban Major Collector	Roadway	Roadway widening - travel lanes	31.00	19.00					4.00	7.00	35.00	26.00	-0.387624859505104
94749 - D08 Signals with ROW	Urban Principal Arterial (UPA) - Other	Intersection traffic control	Modify traffic signal – modernization/replacement	344.00	193.00		1.00	4.00	4.00	86.00	58.00	434.00	256.00	1.17643847946927
96227 - MED IR 0071 24.02 (SR303 RmpClr)	Urban Principal Arterial (UPA) - Interstate	Interchange design	Extend existing lane on ramp	9.00	6.00			1.00		1.00	3.00	11.00	9.00	2.81653115340386
97177 - BRO SR 125 9.47 Safety	Rural Principal Arterial (RPA) - Other	Intersection geometry	Intersection realignment	8.00	2.00							8.00	2.00	0.181909165744832
98464 - D11-GR-FY2017	Rural Principal Arterial (RPA) - Other	Roadside	Barrier- metal	124.00	139.00	3.00	4.00	14.00	7.00	40.00	45.00	181.00	195.00	-5.05825223434751
100742 - POR SR 0044 14.86	Urban Minor Arterial	Intersection geometry	Add/modify auxiliary lanes	11.00	15.00			2.00		6.00	10.00	19.00	25.00	1.66175883012251
101144 - D02 TSG FY2017	Urban Minor Arterial	Intersection traffic control	Modify traffic signal – modernization/replacement	6.00	1.00			1.00		2.00		9.00	1.00	3.33963750567266
101844 - D06 Regional Pedestrian Signals	Urban Principal Arterial (UPA) - Other	Pedestrians and bicyclists	Pedestrian beacons	115.00	103.00				1.00	45.00	47.00	160.00	151.00	0.281338569483743
103814 - D10 FY2017 Type A GR Anchors	Urban Principal Arterial (UPA) - Other	Roadside	Barrier end treatments (crash cushions, terminals)	391.00	401.00	4.00	7.00	14.00	12.00	133.00	163.00	542.00	583.00	-61.6868609007858

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)
105000 - FRA IR 270 0.00/49.63 Cable	Urban Principal Arterial (UPA) - Interstate	Roadside	Barrier – cable	259.00	158.00	4.00	3.00	7.00	8.00	76.00	61.00	346.00	230.00	24.3711625765078
83793 - LOR SR 0254 00.01	Urban Minor Arterial	Intersection geometry	Add/modify auxiliary lanes	29.00	14.00	1.00		2.00		7.00	5.00	39.00	19.00	7.49577199363589
85078 - SUM SR 0091 21.11	Urban Principal Arterial (UPA) - Other	Intersection traffic control	Modify control – Modern Roundabout	16.00	10.00			2.00		2.00	4.00	20.00	14.00	2.61748442097976
88516 - FUL 20A/64 23.94/0.25 Resurf	Rural Minor Arterial	Roadway	Pavement surface - other	28.00	39.00	1.00		1.00	2.00	10.00	9.00	40.00	50.00	5.12814034714982
96167 - WOO Rossford SRTS Sdwlk/Sign	Urban Major Collector	Pedestrians and bicyclists	Install sidewalk	20.00	41.00					6.00	7.00	26.00	48.00	-4.36139197748443
102271 - BRO 41-3.42_ROS 35 RampA_SCI 140	Rural Major Collector	Roadway	Pavement surface - other	50.00	25.00			7.00	3.00	19.00	5.00	76.00	33.00	81.9628308368894
103678 - D04 GR FY2018A	Urban Principal Arterial (UPA) - Other	Roadside	Barrier end treatments (crash cushions, terminals)	223.00	154.00		1.00	12.00	5.00	70.00	52.00	305.00	212.00	11.3867122889449
76266 - HOL US 62 26.06	Rural Minor Arterial	Intersection geometry	Add/modify auxiliary lanes	42.00	18.00					3.00	1.00	45.00	19.00	0.214447885370349
84620 - FRA IR 270 31.70 Part 1&2	Urban Principal Arterial (UPA) - Interstate	Interchange design	Installation of new lane on ramp	774.00	463.00	2.00	4.00	22.00	20.00	245.00	217.00	1043.00	704.00	-2.27873945360314
85076 - SUM Cleve-Mass Road Phase 1	Urban Minor Arterial	Roadway	Roadway widening - travel lanes	12.00	20.00					5.00	1.00	17.00	21.00	2.44122131603968
92528 - CUY IR 077/SR 082 02.82/11.59	Urban Principal Arterial (UPA) - Interstate	Intersection traffic control	Modify traffic signal – modernization/replacement	73.00	128.00			3.00	1.00	25.00	20.00	101.00	149.00	0.556882100452591
93794 - SCI SR 140 7.20 Safety	Rural Major Collector	Shoulder treatments	Widen shoulder – paved or other (includes add shoulder)	2.00	2.00			1.00	1.00	2.00	1.00	5.00	4.00	0.119243866580812

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)
95706 - DEL Gemini Parkway Ext	Urban Minor Arterial	Roadway	Roadway widening - add lane(s) along segment											No crashes reported
96355 - WOO SR 199 27.97 Roundabout	Urban Minor Arterial	Intersection traffic control	Modify control – Modern Roundabout	10.00	8.00			4.00		8.00	1.00	22.00	9.00	4.51436809374106
96496 - D10 General System GR FY2018	Rural Principal Arterial (RPA) - Other	Roadside	Barrier end treatments (crash cushions, terminals)	293.00	282.00	2.00	3.00	17.00	12.00	79.00	81.00	391.00	378.00	-14.4387283582494
97167 - FRA SR 3 21.17	Urban Minor Arterial	Intersection geometry	Add/modify auxiliary lanes	41.00	21.00			1.00	1.00	20.00	11.00	62.00	33.00	2.77359532422547
99435 - CUY SR 082 03.54 Safety	Urban Principal Arterial (UPA) - Other	Intersection geometry	Intersection geometry - other	1.00	7.00				1.00			1.00	8.00	-0.663111356040056
99474 - SCI SR 104 11.96	Rural Major Collector	Intersection geometry	Add/modify auxiliary lanes											No crashes reported
101003 - WOO SR 199 29.10 Carronade Rdabt	Urban Minor Arterial	Intersection traffic control	Modify control – Modern Roundabout	7.00	7.00			2.00	1.00	5.00	2.00	14.00	10.00	1.62652345565358
101064 - ROS US 23 & 35 Various	Rural Principal Arterial (RPA) - Other	Access management	Change in access - close or restrict existing access						1.00				1.00	-24.6128569365627
102060 - GRE US 35 6.24	Urban Principal Arterial (UPA) - Other	Intersection geometry	Add/modify auxiliary lanes											0
76747 - ATB IR 0090 07.56	Rural Principal Arterial (RPA) - Interstate	Roadway	Pavement surface - other	31.00	45.00		1.00		3.00	13.00	6.00	44.00	55.00	-7.60913600387425
83067 - SUM SR 0018 00.00	Urban Principal Arterial (UPA) - Other	Roadway	Roadway widening - travel lanes	645.00	528.00	3.00	1.00	17.00	8.00	157.00	150.00	822.00	687.00	18.1662212840691
88896 - STA SR 44/62/619 VAR	Urban Principal Arterial (UPA) - Other	Roadway	Pavement surface - other	17.00	35.00			1.00	1.00	9.00	16.00	27.00	52.00	-39.1783474344941
89905 - HAM SR 264 8.49	Urban Principal	Intersection geometry	Add/modify auxiliary lanes	61.00	34.00		1.00	4.00	1.00	21.00	12.00	86.00	48.00	-1.27910855216074

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)
	Arterial (UPA) - Other													
92691 - MED SR 0057 17.67	Urban Major Collector	Intersection traffic control	Modify control – Modern Roundabout							1.00		1.00		0.111102976075664
95313 - MEG SR 7 5.240	Rural Principal Arterial (RPA) - Other	Intersection geometry	Add/modify auxiliary lanes	12.00	6.00	1.00	1.00			6.00	8.00	19.00	15.00	-2.09633180075459
97185 - CAR SR 43 22.37	Rural Minor Arterial	Intersection traffic control	Modify traffic signal – add backplates with retroreflective borders	9.00	7.00					2.00	1.00	11.00	8.00	0.503126889062086
99042 - BEL SR 149 23.790	Urban Major Collector	Intersection traffic control	Modify traffic signal – modernization/replacement	21.00	10.00					5.00	2.00	26.00	12.00	1.00897522505994
98661 - D12 TSG FY2017	Urban Principal Arterial (UPA) - Other	Intersection traffic control	Modify traffic signal – modernization/replacement	22.00	7.00			2.00		6.00	2.00	30.00	9.00	29.2424434848722
87032 - D08 TSG FY2015	Urban Principal Arterial (UPA) - Other	Intersection traffic control	Modify traffic signal – modernization/replacement	5837.00	4601.00	12.00	12.00	145.00	120.00	1798.00	1562.00	7792.00	6295.00	458.386816504248
91871 - HAM US 27 11.49	Urban Principal Arterial (UPA) - Other	Roadway	Pavement surface - other	968.00	804.00			24.00	17.00	253.00	209.00	1245.00	1030.00	160.563755971253
92035 - MOT SR 741 0.76	Urban Principal Arterial (UPA) - Other	Intersection geometry	Add/modify auxiliary lanes	79.00	28.00					21.00	11.00	100.00	39.00	3.77900342058414
101558 - MOT Third Street Safety	Urban Principal Arterial (UPA) - Other	Speed management	Traffic calming feature	11.00	21.00			2.00	3.00	3.00	8.00	16.00	32.00	-19.0258476308136
104408 - HAM IR 75 16.67	Urban Principal Arterial (UPA) - Interstate	Interchange design	Interchange design - other	83.00	42.00			1.00	1.00	23.00	10.00	107.00	53.00	3.17150466708952
86661 - FRA US 23 10.83 Part 1&2	Urban Principal Arterial (UPA) - Other	Roadway	Roadway narrowing (road diet, roadway reconfiguration)	880.00	547.00	5.00	4.00	21.00	12.00	223.00	220.00	1129.00	783.00	28.9512265053665
98452 - HAM US 50 0.00	Urban Minor Arterial	Intersection geometry	Add/modify auxiliary lanes	12.00	14.00	1.00			1.00	8.00	4.00	21.00	19.00	10.1001416437549

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)
99622 - ATB SR 0534 19.82	Urban Major Collector	Intersection geometry	Add/modify auxiliary lanes	27.00	6.00					13.00	2.00	40.00	8.00	4.75532808120518
99779 - CLA US 40 10.11	Urban Principal Arterial (UPA) - Other	Intersection traffic control	Modify traffic signal – modernization/replacement	50.00	32.00			1.00		26.00	24.00	77.00	56.00	0.152664667730138
102057 - HAN US 68 13.08 Cable Rail	Urban Principal Arterial (UPA) - Other	Roadside	Barrier – cable	33.00	26.00				1.00	3.00	4.00	36.00	31.00	-1.22888287830314
102099 - MER US 33 10.41	Urban Principal Arterial (UPA) - Other	Intersection traffic control	Modify traffic signal – add backplates with retroreflective borders		3.00					2.00	3.00	2.00	6.00	-3.84013230716342
100553 - WAR US 22/SR 48 2.80/5.22	Urban Principal Arterial (UPA) - Other	Roadway	Pavement surface - other	565.00	471.00	4.00	3.00	12.00	10.00	151.00	142.00	732.00	626.00	223.279924918115
104582 - SUM CR-17 / Wooster Road	Urban Major Collector	Intersection traffic control	Modify traffic signal – modernization/replacement	15.00	5.00			1.00		4.00	3.00	20.00	8.00	41.9683457430875
88043 - BEL SR 7 (20.84)(21.85)	Urban Principal Arterial (UPA) - Other	Intersection geometry	Add/modify auxiliary lanes	12.00	22.00			1.00		5.00	7.00	18.00	29.00	-0.251977196047426
90469 - STA Beeson/Freshley Roundabout	Rural Minor Collector	Intersection traffic control	Modify control – Modern Roundabout	2.00	4.00							2.00	4.00	-0.218942173638529
102453 - SUM SR 0008 04.41	Rural Principal Arterial (RPA) - Other Freeways and Expressways	Interchange design	Extend existing lane on ramp	50.00	25.00			1.00	1.00	15.00	6.00	66.00	32.00	6.47427087961268

Compliance Assessment

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

10/27/2020

What are the years being covered by the current SHSP?

From: 2021 To: 2025

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

2025

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	98					100	98	100	98
	Route Number (8) [8]	100	98								
	Route/Street Name (9) [9]	100	98								
	Federal Aid/Route Type (21) [21]	100	98								
	Rural/Urban Designation (20) [20]	100	98					100	98		
	Surface Type (23) [24]	100	98					100	98		
	Begin Point Segment Descriptor (10) [10]	100	98					100	98	100	98
	End Point Segment Descriptor (11) [11]	100	98					100	98	100	98
	Segment Length (13) [13]	100	98								
	Direction of Inventory (18) [18]	100	98								
	Functional Class (19) [19]	100	98								

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
	Median Type (54) [55]	100	98								
	Access Control (22) [23]	100	98								
	One/Two Way Operations (91) [93]	100	98								
	Number of Through Lanes (31) [32]	100	98					100	98		
	Average Annual Daily Traffic (79) [81]	100	98					100	98		
	AADT Year (80) [82]	100	98								
	Type of Governmental Ownership (4) [4]	100	98								
INTERSECTION	Unique Junction Identifier (120) [110]			100	98						
	Location Identifier for Road 1 Crossing Point (122) [112]			100	98						
	Location Identifier for Road 2 Crossing Point (123) [113]			100	98						
	Intersection/Junction Geometry (126) [116]			100	98						
	Intersection/Junction Traffic Control (131) [131]			100	98						
	AADT for Each Intersecting Road (79) [81]			100	98						
	AADT Year (80) [82]			100	98						
	Unique Approach Identifier (139) [129]			100	98						
INTERCHANGE/RAMP	Unique Interchange Identifier (178) [168]					100	100				
	Location Identifier for Roadway at					100	100				

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
	Beginning of Ramp Terminal (197) [187]										
	Location Identifier for Roadway at Ending Ramp Terminal (201) [191]					100	100				
	Ramp Length (187) [177]					100	100				
	Roadway Type at Beginning of Ramp Terminal (195) [185]					100	100				
	Roadway Type at End Ramp Terminal (199) [189]					100	100				
	Interchange Type (182) [172]					100	100				
	Ramp AADT (191) [181]					100	100				
	Year of Ramp AADT (192) [182]					100	100				
	Functional Class (19) [19]					100	100				
	Type of Governmental Ownership (4) [4]					100	100				
Totals (Average Percent Complete):		**100.00**	**98.00**	**100.00**	**98.00**	**100.00**	**100.00**	**77.78**	**76.22**	**60.00**	**58.80**

*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.

The Location Based Response System (LBRS) is an initiative of the Geographically Referenced Information Program (OGRIP). The LBRS establishes partnerships between State and County government for the creation of spatially accurate street centerlines with address ranges and field verified site specific address locations. A project is underway to collect missing LBRS data, verify/update current LBRS datasets and incorporate LBRS data into the official ODOT Road Inventory (RIMS).

With the ultimate goal of reducing fatalities, injuries and traffic crashes statewide, the LBRS projects' accurate, timely, reliable road inventory data as well as seamless integration among all highway safety stakeholders will make traffic crash analysis and emergency response more effective and efficient.

With the nearing completion of the LBRS data collection, ODOT has began a project to more accurately identify intersection traffic control by approach. This will improve the AADT estimate on all public roadways by integrating this information into ODOT's transportation demand model. This project is funded by a grant through Ohio's Traffic Records Coordinating Committee (TRCC). Intersection safety is a priority of the Ohio Governor, and the improved data will enable ODOT to better prioritize safety investments. The project is now 100% complete.

2023 Ohio Highway Safety Improvement Program

In late 2022 ODOT was awarded NHTSA funding through TRCC for a MIRE data collection project.

This project is expected to begin in late 2023 and will collect 3 MIRE elements, 2 of which are FDE's, statewide on Ohio roadway segments:

1. Route Signing Qualifier

2. Number of Through Lanes (FDE), and

3. One/Two Way Opeartions (FDE)

It is expected that this project will be completed in late 2025 or early 2026.

Optional Attachments

Program Structure:

Highway Safety Improvement Program Guidance.pdf
HSIP Procedures Manual.pdf
Safety_Analysis_Guidelines.pdf
Project Implementation:

Safety Performance:

Evaluation:

Compliance Assessment:

Glossary

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

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

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

HMVMT: means hundred million vehicle miles traveled.

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

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

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

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

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

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

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

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

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