



OHIO

HIGHWAY SAFETY IMPROVEMENT PROGRAM 2021 ANNUAL REPORT



U.S. Department of Transportation
Federal Highway Administration

Photo source: Federal Highway Administration

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Disclaimer

Protection of Data from Discovery Admission into Evidence

23 U.S.C. 148(h)(4) states “Notwithstanding any other provision of law, reports, surveys, schedules, lists, or data compiled or collected for any purpose relating to this section[HSIP], shall not be subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location identified or addressed in the reports, surveys, schedules, lists, or other data.

23 U.S.C. 148(h)(4) states “Notwithstanding any other provision of law, reports, surveys, schedules, lists, or data compiled or collected for any purpose relating to this section[HSIP], shall not be subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location identified or addressed in the reports, surveys, schedules, lists, or other data.23 U.S.C. 409 states “Notwithstanding any other provision of law, reports, surveys, schedules, lists, or data compiled or collected for the purpose of identifying, evaluating, or planning the safety enhancement of potential accident sites, hazardous roadway conditions, or railway-highway crossings, pursuant to sections 130, 144, and 148 of this title or for the purpose of developing any highway safety construction improvement project which may be implemented utilizing Federal-aid highway funds shall not be subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location mentioned or addressed in such reports, surveys, schedules, lists, or data.”

Executive Summary

Traffic deaths and crashes across Ohio have been rising as the statewide economy continues to improve. In 2020, Ohio had 1,229 traffic deaths and 7,237 serious injuries, representing a 6.4% increase in fatalities and a 3.5% decrease in serious injuries compared to 2019.

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 rose 2% in 2016, 4% in 2017, saw a 9% decrease in 2018, rose 8% in 2019, and 6.4% in 2020. 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 bi-weekly 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 Action Teams and New Programs to Address Emerging Crash Trends

Active Transportation Team

Ohio's Active Transportation Plan is in its sixth year of implementation. As a result, ODOT has increased its investments in data collection projects to quantify the amount of bicycle and pedestrian travel across the state. This data will help ODOT and its partners better pinpoint where travel is occurring so we can collectively target our pedestrian and bicycle infrastructure investments.

In 2017, ODOT and the Ohio Department of Health launched the state's first Active Transportation educational program. ODOT continues to house and promote Your Move Ohio campaign materials – a statewide campaign to increase awareness for people walking and biking and encourage more Ohioans to choose active transportation. ODOT continued the campaign in 2019 with the focus on bundling messages and campaign materials into one website that can be marketed to our safety partners across the state for use in their communities. Educational opportunities for practitioners continue to be available through ODOT's Active Transportation Academy. New courses were added such as a Mobility Solutions: Transit's First and Last Mile course, Creating a Rural Active Transportation Plan, and an online eLearning Active Transportation Basics Course. In 2020, the Academy featured additional workshop opportunities to support Vision Zero Action Planning and provide education on Traffic Calming and Safety Countermeasures. In 2021, new educational materials and experiential opportunities are being developed for local decision makers to build more awareness around existing active transportation safety challenges and opportunities in their community. "Your Move Ohio" is a statewide campaign to educate the public on the rules of the road and encourage more Ohioans to walk, bike and bus safely.

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,

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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.

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 2021 and 2022, collaboration will continue with partners to move these strategies forward and combat older road user crashes.

Distracted Driving Task Force

Distracted Driving will continue to be a major initiative for the state. Traffic deaths in Ohio have risen six of the past seven years despite safer vehicle technology. This rise correlates with the widespread adoption of smart phone use, which we believe is a significant factor in traffic crashes – though underreported in Ohio crash data.

In 2021, Governor Mike DeWine worked with several members of the Ohio House to introduce House Bill (HB) 283. The legislation will modernize Ohio's texting law to require "Hands Free" use with primary enforcement. The bill would:

- Prohibit drivers from having physical contact with their phones or other wireless devices while driving or stopped in a lane of traffic.
- Prohibit drivers from surfing the internet and streaming video while driving – activities our phones couldn't do when Ohio passed legislation in 2012.
- Drivers must use voice commands or single-touch activation to make calls, text, use GPS or listen to music on mobile devices.
- Allows exceptions for emergency calls and emergency personnel, such as police and fire.
- Allows primary enforcement. An officer can pull you over, warn or cite drivers for violating the law.

Several hearings were held on the bill this year. Additional hearings are expected to resume in the fall.

ODOT District Offices are supporting the Governor's Distracted Driving Initiative and HB 283 by partnering with law enforcement agencies across the state to designate distracted driving corridors. There are 13 locations in the state with active enforcement. These corridors will be key in raising public awareness for distracted driving until the House reconvenes in the fall.

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HSIP Scoring to Focus on Severity and Equity

ODOT is changing its 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 is also adding 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 will launch a new systemic safety program focused on preventing pedestrian and roadway departure fatalities and serious injuries using FHWA identified proven safety countermeasures. Project sponsors can request 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.

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 \$250,000 or less and construction only. ODOT will review the applications once every quarter.

Revising Statewide Speed and Design Setting Practices

ODOT is incorporating bicycles and pedestrians into the speed study process. This includes making the high presence of pedestrians and bicyclists criteria for lowering speeds and allowing agencies to use a 50th vs. 85th percentile speed to determine the posted speed limit.

ODOT is also finalizing a new multi-modal design guide that Ohio agencies can use. Designs that incorporate bike lanes, curb bump outs, reduced curb radii, and leading pedestrian intervals have been shown to reduce speed-related crashes and improve roadway safety for everyone.

Intersection-Related Revisions to the Traffic Engineering Manual

As part of the SHSP Intersection Action Plan, ODOT will publish a series of changes in the Traffic Engineering Manual (TEM) that could significantly improve intersection safety in the state. These changes include expanding the use of dilemma zone detection, supplemental signal heads and high-visibility crossings; and requiring lighting at any intersection with marked crossings to improve pedestrian conspicuity.

Increased Public and Stakeholder Engagement

Freeway and Portable Message Signs

Since 2015, Ohio has been using its Freeway and Portable Message Signs to post safety messages and the number of traffic deaths on Ohio roads. The state leverages the message boards with a bi-weekly email to SHSP stakeholders that encourages organizations to use and share the same coordinated message.

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ODOT posts messages every other week, and the messages are synced to the communication calendar published by the National Highway Traffic Safety Administration. Messages are selected, and sometimes developed, by a committee from ODOT, the Ohio Department of Public Safety and Ohio State Highway Patrol.

In September 2017, Ohio launched a website to support this effort, which allows the public to develop and submit safety messages that support SHSP emphasis areas. The winners are selected by the statewide committee and publicized to further incentivize the effort and spread information. ODOT routinely works with the Public Information Office to promote the web site and solicit new ideas.

Increased Local Government Engagement

In late 2018, ODOT hired a full-time coordinator and kicked off a **Local Safety Assistance Program**. This program provides local governments and metropolitan planning organizations in the state the technical assistance and consultant support necessary for the development of County and Regional Safety Plans. These 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.

So far, Ohio has initiated 56 safety studies or Road Safety Audits (RSAs), 11 regional or county safety plans, and 4 systemic safety improvement analyses for local governments.

Once a plan is completed, project sponsors can submit abbreviated or formal safety applications for HSIP funds. Abbreviated safety applications can be submitted year-round for non-complex safety improvements that are \$500,000 or less. Formal safety applications for higher dollar, more complex improvements can be submitted in April and September each year. Funding is available for all phases of project development. **So far, Ohio has funded 10 projects from the effort.**

Lastly, ODOT has received additional State Safety funds for State Fiscal Years 2020 and 2021. These additional funds were used along with the Federal HSIP funds to help advance more Safety programs and projects on Ohio's roadways.

The Pandemic's Effect on Crash Trends

Last year was a challenging year for all Ohioans, but especially for the family and friends of loved ones killed or seriously injured on Ohio roads – as well as those tragically touched by COVID.

While Ohioans drove about 10% less last year due to the pandemic, statewide crash data shows that 1,229 people died, and 7,237 people were seriously injured representing a 6.5% increase in traffic deaths and 3.5% decrease in serious injuries compared to 2019. Ohio's fatality rate jumped to 1.20, which was a 19% increase over the previous year. This rise in traffic deaths represents the sixth year out of seven that deaths have risen in our state, despite safer vehicle technology.

While traditional factors such as seat belts use, alcohol and speed played a role in last year's traffic deaths, factors such as drugs, aggressive driving and electronic device distractions compounded these long-standing traffic safety problems to create a deadly mix.

While nearly every fatal crash type rose last year, some crash types rose higher than others. Ohio saw a 38% increase in pedestrian-related deaths, a 41% increase at intersections and a 30% increase in motorcycle-related deaths. The only bright spot was a significant reduction in traffic deaths involving older adults (age 65+) and Commercial Motor Vehicles.

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Ohio saw a fall and rise in traffic volume throughout the pandemic. Overall, traffic volume dropped by almost half in April, then steadily rose throughout 2020 but never hit pre-pandemic levels. Truck traffic surged higher than normal in the second half of the year.

This significant drop in travel should have led to a reduction in traffic deaths. However, monthly traffic deaths in 2020 exceeded 2019 in every month except March, April and November. Lower deaths in these three months coincided with stay home orders or strong suggestions from state officials to avoid travel.

Like other states, Ohio strongly suspects that speeding, aggressive and distracted driving played a significant role in traffic deaths last year, but these factors don't always get included in crash reports. However, observational data from Ohio's Traffic Management Center and speed information from more than 250 count locations statewide support this conclusion.

Last year, Ohio saw a 1% increase in motorists traveling over 85 MPH on freeways. While this increase seems small on the surface, it represents millions more drivers traveling at extreme speeds each month on Ohio freeways than before the pandemic. Before the pandemic, about 78% of drivers were traveling above the posted freeway speed limit. That number rose to 84% last year.

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. The Department utilizes 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 \$159 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

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- Other-Systemic Safety Improvements

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 (\$159M annually), the County Engineers Association (\$12M 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 (\$12 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 \$12 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 490 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

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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 from internal partners 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
- Ratio of Observed Fatal and Serious Injuries to Observed Total Crashes
- Relative Severity Index
- Equivalent Property Damage Only Index (weighing severity and EPDO cost)
- Volume to Capacity Ratio
- Benefit-Cost Ratio (anticipated savings in crash costs, property damage, injuries and fatalities relative to the cost of the improvement plus cost of maintenance for the life of the project).
- 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.

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 Administration; Ohio State Highway Patrol; 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

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became a formal subcommittee of the Ohio Association of Regional Councils.

SHSP Task Forces and Committees

ODOT is currently managing three special task forces or committees that are reviewing, making recommendations and implementing strategies associated with preventing Pedestrian, Older Driver and Distracted Driving deaths. A fourth committee to review driver education curriculum and provide updated videos and training materials completed its work in February 2019. For the 2020 update of the SHSP, a CV/AV committee was formed to focus on...More detail can be found in the executive summary.

Local Safety Assistance Program

In late 2018, the Ohio Department of Transportation's Highway Safety Program kicked off its Local Safety Assistance program. This program provides local governments and metropolitan planning organizations in the state the technical assistance and consultant support around transportation safety issues and helps educate local governments on available HSIP resources and the SHSP. For more information on the Local Safety Assistance Program, see question 6.

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

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 is 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 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 crash frequencies. It also flags locations for review based on crash severity. This methodology is more efficient and cost effective and will allow the department to study fewer locations yet address more crashes each year.

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 of 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. Approximately, the Top 25 locations will be studied.

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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. Approximately, the Top 25 locations will be studied. 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. Approximately, the Top 25 locations will be studied.
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. Approximately, the Top 25 locations will be studied.
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. Approximately, the Top 25 locations will be studied. 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. Approximately, the Top 25 locations will be studied.
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. Approximately, the Top 25 locations will be studied.
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. Approximately, the Top 25 locations will be studied. 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 2021, 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

ODOT spends approximately \$15 million annually of its \$159M program on systemic and systematic safety improvements. These are safety improvements that can be installed across hundreds of road miles for a relatively small public investment. Systematic safety improvements are low-cost improvements that are completed at similar locations to address a specific type of crash pattern. Systemic safety improvements are those improvements that are constructed system-wide to reduce the likelihood of a crash of occurring based on roadway features, traffic volumes or other features such as speed limit or land use type.

Examples of systemic and systematic project types are Curve Signing Upgrade, Edge Line Rumble Stripes, Cable Barrier, Signal Upgrade, Intersection Signing Upgrade, Wider Pavement Markings, and Guardrail End Treatment Upgrade Projects.

In 2022, ODOT's Highway Safety Program will be launching a Systemic Safety Application to focus on roadway departure and pedestrian safety improvements.

Safe Routes to School Program

ODOT uses \$4 million from the Transportation Alternatives Program to fund Ohio's Safe Routes to School Program. Again, this is separate and in addition to the \$159 million ODOT HSIP program. Funds can be used on any public roadway if the school has completed a School Travel Plan. The School Travel Plan outlines where investments should be made for a specific school district.

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ODOT Sold \$10M in Pedestrian Safety Improvements

Pedestrian deaths in Ohio have risen 40% since 2013. To combat the problem, ODOT has dedicated \$10M in funding this year to Akron, Canton, Cincinnati, Cleveland, Columbus, Dayton, Toledo, and Youngstown to build pedestrian safety improvements at 390 locations statewide. The improvements include high visibility crosswalks, street lighting, signage, pedestrian signals and beacons, refuge median islands, curb ramps, and curb bump outs that shorten the walking distance for pedestrians.

ODOT chose these cities because they have the highest number of fatal and serious injury crashes involving pedestrians in the state. ODOT is also piloting a new project development process that bundles low-cost safety improvements and streamlines the environmental and construction process to design and begin construction within 18 months. If the program is successful, ODOT will extend the funding to other Ohio cities.

Wet Reflective Pavement Marking Program

Wet Reflective Markings are an improved marking that increases visibility in night and wet conditions, helping keep motorists in the travel lane. This is done by adding special optics to the pavement markings. The pavement markings are also grooved to allow for long life and less wearing of the marking. Per ODOT policy these marking with be installed on all Class 1 work zones, all multi-lane highway and interstate facilities. From FY 21 through FY 22 there are 77 projects accounting for 1,553 line-miles being installed. This will be done for a cost of about \$35 Million Dollars.

Governor's Intersection Safety Program

In 2021, ODOT will begin or complete construction on **43 intersection safety projects worth \$107M** as part of the Governor's Intersection Safety Program. Another 12 projects will begin construction in 2022 for \$22M.

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, sobriety checkpoints, and other educational opportunities (Federal HSIP funding is no longer available for education or enforcement activities). Although money is not specifically set aside for the High-Risk Rural Roads Program (HRRR) in Ohio at this time, we still encourage agencies to apply for funding through our traditional application process. Any projects that are prioritized based on the HRRR Program are funded through the ODOT's HSIP Program (\$159 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.

- Low-Cost Spot Improvements
- Pedestrian Safety
- Sign Replacement And Improvement
- Other-State HSIP Program
- Other-CEAO HSIP Program

Program: Low-Cost Spot Improvements

Date of Program Methodology:5/1/2016

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

- All crashes
- Fatal and serious injury crashes only

Exposure

- Volume

Roadway

What project identification methodology was used for this program?

- Crash frequency
- Expected crash frequency with EB adjustment

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

Yes

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

Yes

How are projects under this program advanced for implementation?

- selection committee

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

2021 Ohio Highway Safety Improvement Program

Rank of Priority Consideration

Ranking based on B/C:1

Available funding:3

Cost Effectiveness:2

Program: Pedestrian Safety

Date of Program Methodology:10/1/2019

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

- Fatal and serious injury crashes only

- Functional classification

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

Cost Effectiveness:2

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
<ul style="list-style-type: none">• All crashes	<ul style="list-style-type: none">• 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?

2021 Ohio Highway Safety Improvement 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
<ul style="list-style-type: none">• All crashes• Fatal and serious injury crashes only	<ul style="list-style-type: none">• 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
- 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-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 only

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

What percentage of HSIP funds address systemic improvements?

19.6

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
Federal Fiscal Year 2020

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

FUNDING CATEGORY	PROGRAMMED	OBLIGATED	% OBLIGATED/PROGRAMMED
HSIP (23 U.S.C. 148)	\$149,555,686	\$122,219,284	81.72%
HRRR Special Rule (23 U.S.C. 148(g)(1))	\$0	\$0	0%
Penalty Funds (23 U.S.C. 154)	\$0	\$0	0%
Penalty Funds (23 U.S.C. 164)	\$29,016,792	\$29,016,792	100%
RHCP (for HSIP purposes) (23 U.S.C. 130(e)(2))	\$0	\$0	0%
Other Federal-aid Funds (i.e. STBG, NHPP)	\$183,215,581	\$127,251,489	69.45%
State and Local Funds	\$101,088,584	\$68,919,955	68.18%
Totals	\$462,876,643	\$347,407,520	75.05%

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

40%

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

40%

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

5%

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

5%

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 2020, Ohio has obligated approximately 81.72%. 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.

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

Ohio has had several instances over the past year where we had to use state funds to support enforcement and education programs that are no longer eligible for HSIP funding. All the projects are tied to the state's SHSP and emphasis areas that FHWA has encouraged us to address holistically using engaging engineering, enforcement, education, and emergency response (4 E's). Yet, we can't use federal funds to supplement the associated costs.

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
77537 - LOR SR 0002 03.86	Roadway delineation	Improve retroreflectivity	4.11	Miles	\$197500	\$6231624.11	State and Local Funds	Urban	Principal Arterial-Other Freeways & Expressways	48,980	70	State Highway Agency	Systemic	Roadway Departure	Install wet reflective pavement markings to reduce rear end crashes
88990 - SUM Cedar/Exchange Streets	Roadway	Roadway narrowing (road diet, roadway reconfiguration)	4	Lanes	\$396248.9	\$396248.9	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	11,301	35	City or Municipal Highway Agency	Systemic	Pedestrians	Reduce from 4 to 2 lanes to reduce pedestrian and bike crashes
90289 - MOT SR 741 3.62	Pedestrians and bicyclists	Install sidewalk	0.9	Miles	\$222141.81	\$3663975.35	State and Local Funds	Urban	Principal Arterial-Other	26,349	45	State Highway Agency	Systemic	Pedestrians	Install sidewalks and curb ramps.
93607 - CUY SR 091 02.50 Intersection	Intersection geometry	Intersection geometry - other	1	Intersections	\$1449063	\$1641661.22	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Principal Arterial-Other	30,914	35	City or Municipal Highway Agency	Spot	Intersections	Widen intersection to reduce intersection crashes
94551 - FUL W. Barre St, NS	Intersection traffic control	Intersection flashers - sign-mounted or overhead	1	Intersections	\$65260.88	\$65260.88	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Add flashers to reduce intersection crashes
94632 - CLA SR 235 0.23	Access management	Median crossover - directional crossover	2	Access points	\$9401.89	\$9401.89	HSIP (23 U.S.C. 148)	Urban	Minor Collector	14,061	55	State Highway Agency	Systemic	Pedestrians	Lighting, pedestrian and waterway improvements to reduce pedestrian crashes
92789 - HIG CR 5 14.29 & SR 73 15.15	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$203882	\$229145.81	HSIP (23 U.S.C. 148)	Rural	Minor Collector	3,117	55	County Highway Agency	Spot	Intersections	Widen intersection to reduce fixed object crashes
97197 - FRA US 40 22.16	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$1283600	\$1283600	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	41,567	50	City or Municipal Highway Agency	Spot	Intersections	Intersection improvements to reduce intersection crashes

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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
97676 - CUY IR 271 10.87 Safety	Roadway	Roadway widening - add lane(s) along segment	2.58	Miles	\$102183.87	\$102183.87	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Interstate	111,060	60	State Highway Agency	Systemic	Lane Departure	Add lane to reduce traffic
98518 - FRA CR 15 1.68	Intersection traffic control	Modify control – other	1	Intersections	\$200000	\$920000	State and Local Funds	Urban	Minor Arterial	0		City or Municipal Highway Agency	Spot	Intersections	Replace signals and other intersection improvements to reduce intersection crashes
95755 - OTT SR 2 10.34 Resurf	Roadway	Pavement surface - other	1	District	\$28314	\$2075013.5	State and Local Funds	Rural	Principal Arterial-Other	8,080	55	State Highway Agency	Systemic	Roadway Departure	Resurface road to reduce roadway departure crashes
93037 - FAI SR 188 00.00	Roadway	Pavement surface - other	1	District	\$20526.66	\$34037.49	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	17,733	55	State Highway Agency	Systemic	Roadway Departure	Resurface road to reduce roadway departure crashes
98784 - BUT CR 18 2.55 Princeton Rd	Roadway	Roadway widening - travel lanes	1.8	Miles	\$154461.22	\$163236.94	HSIP (23 U.S.C. 148)	Urban	Minor Collector	13,170	45	County Highway Agency	Systemic	Roadway Departure	Widening roadway to reduce fixed object crashes
98157 - GRE CR 1/54 3.85/2.34	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	\$300000	\$1747472	State and Local Funds	Urban	Minor Collector	11,791	45	City or Municipal Highway Agency	Spot	Intersections	Intersection improvement to reduce rear end crashes
97947 - MUS PM FY 2019	Roadway delineation	Longitudinal pavement markings – new	27.671	Miles	\$147789.92	\$147789.92	Penalty Funds (23 U.S.C. 164)	Urban	Minor Collector	2,595	55	County Highway Agency	Systemic	Lane Departure	Create/Improve pavement markings to reduce sideswipe crashes
97965 - MUS CR Var GR2019	Roadside	Barrier- metal	2.61	Miles	\$291502.5	\$291502.5	Penalty Funds (23 U.S.C. 164)	Urban	Minor Collector	5,263	55	County Highway Agency	Systemic	Roadway Departure	Improve guard rails to reduce fixed object crashes
99878 - LIC CR VAR GR FY2019	Roadside	Barrier- metal	1.36	Miles	\$292913	\$292913	HSIP (23 U.S.C. 148)	Urban	Minor Collector	6,068		County Highway Agency	Systemic	Roadway Departure	Create guard rails to reduce fixed object crashes

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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
99913 - UNI CR PM FY2019	Roadway delineation	Longitudinal pavement markings – new	17.321	Miles	\$150000	\$150000	HSIP (23 U.S.C. 148)	Urban	Minor Collector	4,608		County Highway Agency	Systemic	Lane Departure	Create/Improve pavement markings to reduce sideswipe crashes
99915 - FRA CR GR FY2019	Roadside	Barrier- metal	19.64	Miles	\$100000	\$100000	Penalty Funds (23 U.S.C. 164)	Urban	Minor Arterial	8,644		County Highway Agency	Systemic	Roadway Departure	Create/Improve guard rails to reduce fixed object crashes
99917 - DEL CR 030 05.60 (Sunbury Road)	Roadside	Barrier- metal	1	Locations	\$110000	\$110000	Penalty Funds (23 U.S.C. 164)	Urban	Minor Arterial	18,660		County Highway Agency	Systemic	Roadway Departure	Create/Improve guard rails to reduce fixed object crashes
92012 - LAW 52, 7, & 527	Roadway	Pavement surface - other	7.24	Miles	\$2000	\$4373558.24	State and Local Funds	Urban	Principal Arterial-Other Freeways & Expressways	30,659	55	State Highway Agency	Systemic	Roadway Departure	Improve roadway surface to reduce fixed object crashes
99948 - STA Perry Dr/Jackson Ave	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	\$1098399.26	\$1098399.26	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	6,943		County Highway Agency	Spot	Intersections	Intersection Improvements to reduce intersection crashes
96440 - JEF SR 164 5.630	Roadway	Roadway widening - curve	0.09	Miles	\$195000	\$3027383.75	State and Local Funds	Rural	Minor Collector	1,609	35	State Highway Agency	Spot	Roadway Departure	Widen curves to reduce fixed object crashes.
99488 - CAR VAR GR Phase 2	Roadside	Barrier- metal	1	Locations	\$148335	\$148335	HSIP (23 U.S.C. 148)	N/A	N/A	0		County Highway Agency	Systemic	Roadway Departure	Create/Improve guard rails to reduce fixed object crashes
97433 - MED CR VAR GR FY2019	Roadside	Barrier- metal	1	Locations	\$107699	\$107699	HSIP (23 U.S.C. 148)	N/A	N/A	0		County Highway Agency	Systemic	Roadway Departure	Create/Improve guard rails to reduce fixed object crashes
100180 - HAM 66th Street NS	Intersection traffic control	Intersection flashers – sign-mounted or overhead	1	Intersections	\$9675	\$9675	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Install flashers to reduce intersection crashes
101034 - MOT SR 741/725 2.93/16.51	Intersection traffic control	Modify traffic signal – add backplates with retroreflective borders	2	Intersections	\$8001.92	\$26951.84	State and Local Funds	Urban	Principal Arterial-Other	26,487	55	State Highway Agency	Spot	Intersections	Install backplates to reduce intersection crashes

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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
100327 - MAH TR 1698 Maple Ave YSRR	Intersection traffic control	Modify control – other	1	Intersections	\$302352.8	\$313528	HSIP (23 U.S.C. 148)	Urban	Local Road or Street	0		Railroad	Spot	Intersections	Adapt intersection to railroad timing to reduce train crashes
99980 - SAN State/Front RR interconnect	Intersection traffic control	Modify control – other	1	Intersections	\$330598.11	\$377598.11	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Adapt intersection to railroad timing to reduce train crashes
99880 - BUT CR 20 7.45	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$305077.92	\$305077.92	Penalty Funds (23 U.S.C. 164)	Urban	Minor Arterial	8,962		County Highway Agency	Spot	Intersections	Add turn lane to reduce left turn crashes
96929 - MAR SR 4 Main Street (main)CSX	Railroad grade crossings	Active grade crossing equipment installation/upgrade	1	Intersections	\$41452.75	\$41452.75	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Update signal to reduce train crashes
103901 - KNO SR 13 11.71 (Mt Vern Safety)	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$447448.68	\$447448.68	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	12,182	35	City or Municipal Highway Agency	Spot	Intersections	Safety improvements to the intersection to reduce intersection crashes
102234 - POR SR 0014 03.65	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$505533.6	\$505533.6	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	21,033	50	City or Municipal Highway Agency	Spot	Intersections	Add TWLTL to reduce intersection crashes
102915 - HUR CR 0060 00.00(Ftchvle Rvr)	Roadway	Rumble strips –other	2.78	Miles	\$927412.11	\$927412.11	HSIP (23 U.S.C. 148)	Rural	Major Collector	825		County Highway Agency	Systemic	Roadway Departure	Roadway safety improvements to reduce fixed object crashes
102047 - FRA CR 3 6.79	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	\$1599999.99	\$1600000	Penalty Funds (23 U.S.C. 164)	Urban	Minor Arterial	5,123	45	County Highway Agency	Spot	Intersections	Create roundabout to reduce intersection crashes
103293 - SUM CR 0017 16.51	Access management	Change in access - close or restrict existing access	1	Locations	\$2299770.73	\$7281994.53	Other Federal-aid Funds (i.e. STBG, NHPP)	Urban	Minor Arterial	18,653		City or Municipal Highway Agency	Spot	Roadway Departure	Ristrict to a right turn only to reduce traffic and congestion related crashes

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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
100543 - CHP CR VAR PM FY19	Roadway delineation	Longitudinal pavement markings - remarking	79.495	Miles	\$91506.34	\$91506.34	HSIP (23 U.S.C. 148)	Urban	Minor Collector	5,812	45	County Highway Agency	Systemic	Roadway Departure	Improve roadway surface to reduce fixed object crashes
99499 - KNO VAR COUNTY GUARDRAIL (2020)	Roadside	Barrier- metal	1.22	Miles	\$273296.38	\$273296.38	Penalty Funds (23 U.S.C. 164)	Urban	Minor Collector	2,797		County Highway Agency	Systemic	Roadway Departure	Create/Improve guard rails to reduce fixed object crashes
97317 - ROS CR127/VAR RPM FY2019	Roadway delineation	Raised pavement markers	2.46	Miles	\$4092	\$14028	State and Local Funds	Urban	Minor Collector	1,717	45	County Highway Agency	Systemic	Roadway Departure	Raise pavement markers to reduce fixed object crashes
101829 - MEG CR VAR PM FY2019	Roadway delineation	Longitudinal pavement markings – new	1.14	Miles	\$2608.65	\$2608.65	HSIP (23 U.S.C. 148)	Rural	Minor Collector	166		County Highway Agency	Systemic	Roadway Departure	Improve roadway surface to reduce fixed object crashes
99669 - MER CR 22 1.50	Intersection geometry	Intersection geometry - other	1	Intersections	\$679679.44	\$680154.24	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	799	45	County Highway Agency	Spot	Intersections	Fixing intersection angles to reduce intersection crashes
103364 - CAR VAR PM Phase 1	Roadway delineation	Longitudinal pavement markings – new	1	Locations	\$148065	\$148065	HSIP (23 U.S.C. 148)	N/A	N/A	0		County Highway Agency	Systemic	Roadway Departure	Improve roadway surface to reduce fixed object crashes
103869 - SEN CR 26/592 0.00/2.74	Shoulder treatments	Widen shoulder – paved or other (includes add shoulder)	6.44	Miles	\$884158.08	\$884158.08	HSIP (23 U.S.C. 148)	Urban	Minor Collector	3,102	45	County Highway Agency	Spot	Roadway Departure	Widening roadway to reduce fixed object crashes
99573 - MED CR VAR PM FY2020	Roadway delineation	Longitudinal pavement markings – new	21.66	Miles	\$176256.67	\$176256.67	HSIP (23 U.S.C. 148)	Urban	Minor Collector	10,029	45	County Highway Agency	Systemic	Roadway Departure	Improve roadway surface to reduce fixed object crashes
99576 - RIC CR VAR GR FY2020	Roadside	Barrier- metal	0.17	Miles	\$150000	\$150000	HSIP (23 U.S.C. 148)	Urban	Minor Collector	1,557	45	County Highway Agency	Systemic	Roadway Departure	Create/Improve guard rails to reduce fixed object crashes

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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
99580 - LOR CR 0032 02.92 (Middle Rdg)	Intersection geometry	Intersection realignment	1	Intersections	\$454809.44	\$454809.44	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	0	35	County Highway Agency	Spot	Intersections	Fixing intersection angles to reduce intersection crashes
99591 - RIC CR VAR PM FY2020	Roadway delineation	Longitudinal pavement markings - remarking	21.238	Miles	\$150000	\$150000	HSIP (23 U.S.C. 148)	Urban	Minor Collector	1,149	45	County Highway Agency	Systemic	Roadway Departure	Improve roadway surface to reduce fixed object crashes
103690 - CLI VAR Guardrail FY 20	Roadside	Barrier- metal	6.854	Miles	\$299220	\$299220	HSIP (23 U.S.C. 148)	Urban	Minor Collector	1,527	45	County Highway Agency	Systemic	Roadway Departure	Create/Improve guard rails to reduce fixed object crashes
103973 - PRE VAR Pavement Markings FY 20	Roadway delineation	Longitudinal pavement markings - remarking	11.104	Miles	\$150000	\$150000	HSIP (23 U.S.C. 148)	Urban	Local Road or Street	530	45	County Highway Agency	Systemic	Roadway Departure	Improve roadway surface to reduce fixed object crashes
99192 - HIG CR4/VAR Guardrail FY20	Roadside	Barrier- metal	17.732	Miles	\$382180	\$382180	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	211		County Highway Agency	Systemic	Roadway Departure	Create/Improve guard rails to reduce fixed object crashes
99194 - PIK CR 5/VAR Guardrail FY 2020	Roadside	Barrier- metal	12.44	Miles	\$607720	\$607720	HSIP (23 U.S.C. 148)	Urban	Local Road or Street	487		County Highway Agency	Systemic	Roadway Departure	Create/Improve guard rails to reduce fixed object crashes
99195 - ROS CR127/ VAR Guardrail FY 2020	Roadside	Barrier- metal	17.32	Miles	\$288420	\$296683.75	HSIP (23 U.S.C. 148)	Urban	Major Collector	1,464	45	County Highway Agency	Systemic	Roadway Departure	Create/Improve guard rails to reduce fixed object crashes
99196 - SCI CR VAR Guardrail FY 2020	Roadside	Barrier- metal	30.93	Miles	\$327990	\$327990	HSIP (23 U.S.C. 148)	Rural	Minor Collector	1,409		County Highway Agency	Systemic	Roadway Departure	Create/Improve guard rails to reduce fixed object crashes
99204 - PIK CR 66 4.36	Intersection geometry	Add/modify auxiliary lanes	0.89	Miles	\$15926.08	\$95823.17	HSIP (23 U.S.C. 148)	Rural	Minor Collector	947		County Highway Agency	Spot	Roadway Departure	Repair the slip lane to reduce fixed object crashes
102809 - COL US 30 8.860	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	\$35000	\$35000	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	3,056	35	State Highway Agency	Spot	Intersections	Update signal to reduce intersection crashes

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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
104032 - MEG CR VAR GR FY2020	Roadside	Barrier- metal	0.84	Miles	\$136240	\$136240	HSIP (23 U.S.C. 148)	Urban	Minor Collector	3,158	55	County Highway Agency	Systemic	Roadway Departure	Create/Improve guard rails to reduce fixed object crashes
103910 - CLI CR 12 0.00 Antioch Road	Roadway	Roadway widening - travel lanes	0.37	Miles	\$605863.44	\$605863.44	HSIP (23 U.S.C. 148)	Rural	Minor Collector	1,442	45	County Highway Agency	Systemic	Roadway Departure	Widening the roadway to reduce fixed object crashes
104014 - PRE VAR RPM FY 21	Roadway delineation	Raised pavement markers	3.881	Miles	\$36611.6	\$36611.6	HSIP (23 U.S.C. 148)	Urban	Minor Collector	1,959	45	County Highway Agency	Systemic	Roadway Departure	Raise pavement markers to reduce fixed object crashes
104045 - HOL VAR GR Phase 9	Roadside	Barrier- metal	24.308	Miles	\$388676.75	\$388676.75	HSIP (23 U.S.C. 148)	Rural	Minor Collector	2,515	45	County Highway Agency	Systemic	Roadway Departure	Create/Improve guard rails to reduce fixed object crashes
89248 - CUY SR 010 11.95	Roadway	Pavement surface - other	2.18	Miles	\$72028.49	\$372971.61	State and Local Funds	Urban	Minor Arterial	13,156	25	City or Municipal Highway Agency	Systemic	Roadway Departure	Resurfacing roadway to reduce fixed object crashes
95801 - WOO US 6 5.04 Resurf	Roadway	Pavement surface - other	6.688	Miles	\$67914	\$3008877.25	State and Local Funds	Urban	Principal Arterial-Other	7,517	55	State Highway Agency	Systemic	Roadway Departure	Resurfacing roadway to reduce fixed object crashes
104050 - HOL VAR PM Phase 3	Roadway delineation	Longitudinal pavement markings – new	25.234	Miles	\$210076.31	\$210076.31	HSIP (23 U.S.C. 148)	Rural	Major Collector	252	45	County Highway Agency	Systemic	Roadway Departure	Improve roadway surface to reduce fixed object crashes
104098 - ATH CR VAR PM FY2020	Roadway delineation	Longitudinal pavement markings – new	133.504	Miles	\$198360	\$198360	HSIP (23 U.S.C. 148)	Urban	Minor Collector	4,246	55	County Highway Agency	Systemic	Roadway Departure	Improve roadway surface to reduce fixed object crashes
103703 - CRA SR 0019 00.00	Roadway	Pavement surface - other	4.477	Miles	\$4860	\$1499463.84	State and Local Funds	Urban	Principal Arterial-Other	4,734	55	State Highway Agency	Systemic	Roadway Departure	Resurfacing roadway to reduce fixed object crashes
100504 - HIG US 62 10.38	Roadway	Pavement surface - other	2.94	Miles	\$13284	\$989813.45	State and Local Funds	Urban	Minor Arterial	4,624	55	State Highway Agency	Systemic	Roadway Departure	Resurfacing overlay roadway to reduce fixed object crashes

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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
100194 - LUC US 24 20.07 Urban Pav	Roadway	Pavement surface - other	0.54	Miles	\$367560.04	\$367560.04	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	5,444	35	City or Municipal Highway Agency	Systemic	Roadway Departure	Resurfacing roadway to reduce fixed object crashes
104113 - STA Guardrail FY2020	Roadside	Barrier- metal	31.75	Miles	\$250000	\$250000	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other Freeways & Expressways	19,722	45	County Highway Agency	Systemic	Roadway Departure	Create/Improve guard rails to reduce fixed object crashes
103776 - BRO-52-19.99	Pedestrians and bicyclists	Pedestrians and bicyclists - other	0.09	Miles	\$141345.01	\$142768.95	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
104266 - TRU GR FY2020	Roadside	Barrier- metal	7.085	Miles	\$300000	\$302274.69	HSIP (23 U.S.C. 148)	Urban	Minor Collector	3,839	45	County Highway Agency	Systemic	Roadway Departure	Create/Improve guard rails to reduce fixed object crashes
106074 - CLA N. Belmont/James IORY/WESTCO	Railroad grade crossings	Active grade crossing equipment installation/upgrade	1	Locations	\$1406.48	\$363064.13	State and Local Funds	N/A	N/A	0		Railroad	Spot	Intersections	Upgrade RR crossing circuitry to reduce train crashes
105623 - FRA CR 17 10.43	Intersection traffic control	Modify control - Modern Roundabout	1	Intersections	\$1000000	\$1000000	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	9,789	45	County Highway Agency	Spot	Intersections	Roundabout to reduce intersection crashes
110273 - FRA-71-HSR Feasibility Study	Miscellaneous	Transportation safety planning	1	Study	\$450000	\$794049.25	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Interstate	133,182	65	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
110278 - POR Atwater Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$14057	\$14637.38	HSIP (23 U.S.C. 148)	Rural	Multiple/Varies	0	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110279 - HAM US 27 11.03 TSMO Pilot	Intersection traffic control	Modify traffic signal -other	22	Intersections	\$481390	\$481390	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	34,352	35	State Highway Agency	Systemic	Intersections	Install advanced signal detection throughout corridor to

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															reduce rear end crashes
110280 - HAM North College Hill Retiming	Intersection traffic control	Modify traffic signal timing – general retiming	2	Intersections	\$32013.7	\$32013.7	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	33,790	25	State Highway Agency	Systemic	Intersections	Signal timing modifications to reduce intersection related crashes
110298 - LAK IR 090 13.63 VSL Upgrade	Advanced technology and ITS	Advanced technology and ITS - other	14	Miles	\$1295992	\$1516015.74	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Interstate	53,971	70	State Highway Agency	Systemic	Roadway Departure	Install variable speed limit corridor to reduce snow squall related crashes
110339 - STW District Workshops OH USBR	Miscellaneous	Training and workforce development	1	Training	\$55880.1	\$62089	HSIP (23 U.S.C. 148)	N/A	Multiple/Varies	0	0	State Highway Agency	Study	Bicyclists	Safety course development for career professionals related to bicycle facilities
110467 - BUT SR 73 18.08	Access management	Change in access - close or restrict existing access	0.3	Miles	\$171678.6	\$171678.6	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	13,589	45	State Highway Agency	Spot	Intersections	Access management improvements to reduce angle crashes
110481 - HOL US 62 19.650	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	\$59517	\$59517	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
110485 - SHE-CR25A-9.77	Shoulder treatments	Widen shoulder – paved or other (includes add shoulder)	3.93	Miles	\$500000	\$500000	HSIP (23 U.S.C. 148)	Urban	Minor Collector	6,119	45	County Highway Agency	Spot	Roadway Departure	Widen shoulders to reduce fixed object crashes
110580 - MRW Congress Township Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$16209.4	\$16209.4	HSIP (23 U.S.C. 148)	Rural	Multiple/Varies	395	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway

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110605 - ERI Vermilion Sign Grant TWP	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$10000	\$10000	HSIP (23 U.S.C. 148)	Urban	Multiple/Varies	11,676	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110620 - MED Wadsworth Sign Grant Twp	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$14625.13	\$14625.13	HSIP (23 U.S.C. 148)	Urban	Multiple/Varies	2,739	0	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110621 - COS Tuscarawas Sign Grant Twp	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$5520.05	\$5520.05	HSIP (23 U.S.C. 148)	Urban	Multiple/Varies	3,239	35	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110624 - WAY Sugar Creek Sign Grant Twp	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$24400	\$24400	HSIP (23 U.S.C. 148)	Rural	Multiple/Varies	235	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110627 - TRU Southington Sign Grant Twp	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$6623.02	\$6623.02	HSIP (23 U.S.C. 148)	Urban	Multiple/Varies	0	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110651 - WAY Salt Creek Sign Grant Twp	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$36596.62	\$36596.62	HSIP (23 U.S.C. 148)	Urban	Multiple/Varies	235	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway

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110653 - LAK Cty Perry Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$29382.13	\$29382.13	HSIP (23 U.S.C. 148)	Urban	Multiple/Varies	235	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110654 - HUR Cty New London Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$14309.59	\$14309.59	HSIP (23 U.S.C. 148)	Rural	Multiple/Varies	340	0	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110657 - POR Nelson Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$9123.92	\$12334.69	HSIP (23 U.S.C. 148)	Urban	Multiple/Varies	0	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110658 - ASD Cty Milton Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$21472.11	\$21472.11	HSIP (23 U.S.C. 148)	Rural	Multiple/Varies	235	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110659 - MED Cty Litchfield Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$9806.76	\$9806.76	HSIP (23 U.S.C. 148)	Urban	Multiple/Varies	3,489	0	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110661 - ASD Green Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$29684.96	\$33325	HSIP (23 U.S.C. 148)	Rural	Multiple/Varies	235	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway

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110662 - OTT Danbury Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$17004.28	\$17004.28	State and Local Funds	Urban	Multiple/Varies	3,027	40	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110688 - WAS Adams Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$2267	\$2267	HSIP (23 U.S.C. 148)	Rural	Multiple/Varies	319	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110728 - BUT West Chester Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$50620.37	\$50620.37	HSIP (23 U.S.C. 148)	Urban	Multiple/Varies	12,257	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110730 - PIC Washington Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$2627.36	\$2627.36	HSIP (23 U.S.C. 148)	Urban	Multiple/Varies	1,638	0	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110732 - CLE Williamsburg Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$22197.89	\$22197.89	HSIP (23 U.S.C. 148)	Urban	Multiple/Varies	235	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110735 - CLI Vernon Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$18467.74	\$18467.74	HSIP (23 U.S.C. 148)	Rural	Multiple/Varies	235	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway

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110747 - DEL Scioto Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$43600	\$43600	HSIP (23 U.S.C. 148)	Rural	Multiple/Varies	235	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110748 - PER Pike Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$27283.83	\$27283.83	HSIP (23 U.S.C. 148)	Rural	Multiple/Varies	235	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110749 - PIK Pee Pee Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$26501.59	\$26501.59	HSIP (23 U.S.C. 148)	Rural	Multiple/Varies	235	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110750 - CLE Monroe Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$13000	\$13000	State and Local Funds	Urban	Multiple/Varies	62	55	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110751 - ATB Morgan Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$21837.43	\$21837.43	HSIP (23 U.S.C. 148)	Rural	Multiple/Varies	235	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110752 - FRA Mifflin Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$14989.21	\$14989.21	HSIP (23 U.S.C. 148)	Urban	Multiple/Varies	650	0	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway

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110756 - LOR US 0020 15.84 IOS	Miscellaneous	Transportation safety planning	1	Study	\$18557.17	\$18557.17	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other Freeways & Expressways	32,038	65	State Highway Agency	Study	Intersections	Safety study to identify contributing factors leading to crashes
110757 - RIC US 0030 03.92 IOS	Miscellaneous	Transportation safety planning	1	Study	\$1556.24	\$18528	State and Local Funds	Urban	Principal Arterial-Other Freeways & Expressways	20,707	70	State Highway Agency	Study	Intersections	Safety study to identify contributing factors leading to crashes
110765 - CLE Jackson Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$5510.66	\$5510.66	State and Local Funds	Rural	Multiple/Varies	419	0	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110774 - DEL Delaware Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$12434.73	\$12434.73	State and Local Funds	Urban	Multiple/Varies	1,466	0	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110776 - PIC Darby Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$14650	\$15158.15	State and Local Funds	Urban	Multiple/Varies	837	0	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110778 - FAI Amanda Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$30555.59	\$30555.59	HSIP (23 U.S.C. 148)	Rural	Multiple/Varies	235	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110785 - CLI Green Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$18784.85	\$18784.85	HSIP (23 U.S.C. 148)	Rural	Multiple/Varies	235	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and

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															intersection crashes along roadway
110822 - TRU SR 0046 05.98 Signal Study	Intersection traffic control	Modify traffic signal timing – general retiming	7	Intersections	\$38056.29	\$38056.29	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	18,458	40	City or Municipal Highway Agency	Systemic	Intersections	Signal timing modifications to reduce intersection related crashes
110840 - HAS Country Club Rd Sidewalks	Pedestrians and bicyclists	Install sidewalk	0.36	Miles	\$96778	\$96778	Penalty Funds (23 U.S.C. 164)	Urban	Multiple/Varies	0	0	City or Municipal Highway Agency	Spot	Pedestrians	Install sidewalks to reduce pedestrian crashes
110853 - ASD US 0030 10.28	Intersection geometry	Intersection geometry - other	1	Intersections	\$10000	\$10000	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	14,287	60	State Highway Agency	Spot	Intersections	Construct restricted crossing u turns to reduce angle crashes
110861 - LIC US 62 03.64	Intersection geometry	Add/modify auxiliary lanes	0.3	Miles	\$337500	\$346449	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	16,759	35	State Highway Agency	Spot	Intersections	Construct two way left turn lane to reduce rear end crashes
110862 - FAI CR 7 01.94	Intersection geometry	Add/modify auxiliary lanes	3	Intersections	\$308691	\$308691	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	0	0	County Highway Agency	Spot	Intersections	Construct right turn lanes to reduce rear end crashes
110864 - LIC/KNO FY 20 Guardrail	Roadside	Barrier end treatments (crash cushions, terminals)	32	Numbers	\$138006.01	\$139401.75	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other Freeways & Expressways	37,603	60	State Highway Agency	Systemic	Roadway Departure	Replacement of Type A guardrail end treatments to reduce fixed object crashes
110866 - HEN US 24 0.43 CR-17D Interchnng	Interchange design	Convert at-grade intersection to interchange	4	Intersections	\$444097.8	\$444097.8	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	24,090	65	County Highway Agency	Spot	Intersections	Construct Interchange and close median access points for 3 other location to reduce angle and left turn crashes

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110867 - HEN SR 108 17.40 Roundabout	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	\$94895.1	\$94895.1	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	8,047	50	State Highway Agency	Spot	Intersections	Construct roundabout to reduce rear end crashes
110876 - WAY US 0030 20.15	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$198000	\$198000	Penalty Funds (23 U.S.C. 164)	Rural	Principal Arterial-Other	22,773	55	State Highway Agency	Spot	Intersections	Construct right turn lanes to reduce rear end crashes
110877 - LAK US 020 11.12 Signal Timing	Intersection traffic control	Modify traffic signal timing – general retiming	8	Intersections	\$38797	\$38797	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	23,205	35	State Highway Agency	Systemic	Intersections	Signal timing modifications to reduce intersection related crashes
110898 - ERI SR 0004 04.65	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	\$319500	\$319500	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
110968 - HAM SR 561- Safety Study LSA	Miscellaneous	Transportation safety planning	1	Study	\$26939.7	\$29866	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	11,878	35	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
110972 - SUM CR 111 Safety Study LSA	Miscellaneous	Road safety audits	1	Study	\$39715	\$39715	HSIP (23 U.S.C. 148)	Urban	Minor Collector	14,307	0	State Highway Agency	Study	Data	Road Safety Audit to identify contributing factors leading to crashes
110995 - BUT GMRT Extension	Pedestrians and bicyclists	Pedestrians and bicyclists – other	1	Intersections	\$148094.1	\$148094.1	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	25,755	55	City or Municipal Highway Agency	Spot	Bicyclists	Extend bicycle path to reduce bicycle crashes
111017 - STW AT Planning Guidance	Miscellaneous	Transportation safety planning	1	Study	\$20382.3	\$22647	HSIP (23 U.S.C. 148)	N/A	Multiple/Varies	0	0	State Highway Agency	Study	Data	Strategic Highway Safety Plan Active Transportation Plan
111065 - ATB/TRU US 20/SR 45 Signal Study	Intersection traffic control	Modify traffic signal timing – general retiming	12	Intersections	\$62069.43	\$62069.43	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	17,271	45	State Highway Agency	Systemic	Intersections	Signal timing modifications to reduce intersection related crashes

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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
111066 - DEL-Manning/Olen Bike/Ped	Pedestrians and bicyclists	Install new crosswalk	1	Crosswalks	\$45000	\$50000	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	25,432	45	State Highway Agency	Spot	Pedestrians	Install a pedestrian and bicycle crossing to reduce pedestrian and bicycle crashes
111086 - STW Work Zone Safety	Miscellaneous	Miscellaneous - other	10	Locations	\$99350.39	\$100000	State and Local Funds	N/A	Multiple/Varies	0	0	State Highway Agency	Spot	Work Zones	ODPS improving work zone safety to reduce work zone crashes
111087 - BUT SR 73 13.05 DEMO	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	\$130680	\$130680	Penalty Funds (23 U.S.C. 164)	Rural	Minor Arterial	6,363	55	State Highway Agency	Spot	Intersections	Construct roundabout to reduce angle crashes
111114 - MOT-CR-74-6.05/7.39	Miscellaneous	Transportation safety planning	1	Study	\$41997	\$41997	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	29,400	45	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
111120 - AUG-33/75 Feasibility Study	Miscellaneous	Transportation safety planning	1	Study	\$104167.8	\$115742	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Interstate	40,403	70	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
111150 - MED SR 0303 04.85	Miscellaneous	Transportation safety planning	1	Study	\$113776.56	\$175096	HSIP (23 U.S.C. 148)	Rural	Minor Collector	5,947	55	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
111151 - FRA-674-3.14 (Gender Study)	Intersection traffic control	Modify traffic signal timing – general retiming	7	Intersections	\$53575.73	\$53575.73	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	10,694	45	State Highway Agency	Systemic	Intersections	Signal timing modifications to reduce intersection related crashes
111194 - POR SR 0014 06.25	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$36000	\$40000	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	21,033	55	State Highway Agency	Spot	Intersections	Construct left turn lanes to reduce left turn, angle and rear end crashes

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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
111198 - BUT Hamilton City AT Plan	Miscellaneous	Transportation safety planning	1	Study	\$39621.6	\$44024	Penalty Funds (23 U.S.C. 164)	N/A	Multiple/Varies	0	0	State Highway Agency	Study	Data	Develop an active transportation plan to reduce pedestrian and bicycle crashes
111210 - MOT Market St RSA	Miscellaneous	Road safety audits	1	Study	\$16954	\$16954	HSIP (23 U.S.C. 148)	Urban	Minor Collector	7,837	35	State Highway Agency	Study	Data	Road Safety Audit to identify contributing factors leading to crashes
111215 - ATH US 33 19.300	Roadway	Rumble strips – center	8.91	Miles	\$113120	\$113120	Penalty Funds (23 U.S.C. 164)	Rural	Principal Arterial-Other	6,780	55	State Highway Agency	Systemic	Roadway Departure	Install centerline rumble stripes to reduce head on crashes
111291 - MOT SR 49 6.410 RSA	Miscellaneous	Road safety audits	1	Study	\$16954	\$16954	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	13,941	50	State Highway Agency	Study	Data	Road Safety Audit to identify contributing factors leading to crashes
111293 - COS Systemic Safety Analysis LSA	Miscellaneous	Transportation safety planning	1	Study	\$76039.2	\$84488	Penalty Funds (23 U.S.C. 164)	N/A	Multiple/Varies	0	0	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
111294 - MAR Marion-Williamsport/Main SS	Miscellaneous	Transportation safety planning	1	Study	\$23598.9	\$26077.17	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	4,459	40	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
111295 - STW PSIP Phase 1 (Planning)	Miscellaneous	Transportation safety planning	1	Study	\$62982	\$69980	HSIP (23 U.S.C. 148)	N/A	Multiple/Varies	0	0	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
111325 - ASD SR 0096 Signal Timing	Intersection traffic control	Modify traffic signal timing – general retiming	7	Intersections	\$36557	\$36557	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	23,205	35	State Highway Agency	Systemic	Intersections	Signal timing modifications to reduce intersection related crashes

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111329 - LIC US 40/SR 310 02.71/00.57	Intersection traffic control	Modify traffic signal timing – general retiming	9	Intersections	\$43623	\$43623	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	27,679	40	State Highway Agency	Systemic	Intersections	Signal timing modifications to reduce intersection related crashes
111379 - HAN SR 15/CR 180 19.56/0.21	Access management	Change in access - close or restrict existing access	1	Intersections	\$286200	\$286200	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	13,401	65	County Highway Agency	Spot	Intersections	Remove at grade intersection to reduce angle crashes
111387 - HAM CR 457 Ped Safety Study	Miscellaneous	Transportation safety planning	1	Study	\$35714	\$35714	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	15,415	35	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
111406 - HAM CR 716 Safety Study LSA	Miscellaneous	Transportation safety planning	1	Study	\$28325	\$28335.61	Penalty Funds (23 U.S.C. 164)	Urban	Minor Collector	0	0	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
111408 - HAM CR 646 Safety Study LSA	Miscellaneous	Transportation safety planning	1	Study	\$31201	\$31201	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	15,415	35	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
111410 - HUR US 224 Safety Study LSA	Miscellaneous	Transportation safety planning	1	Study	\$40030	\$40030	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	9,461	35	State Highway Agency	Study	Data	Install centerline rumble stripes to reduce head on crashes
111460 - FRA/FAI US 33 SE Study	Miscellaneous	Transportation safety planning	1	Study	\$450000	\$529065	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other Freeways & Expressways	56,687	60	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
111490 - GAL County Safety Plan	Miscellaneous	Transportation safety planning	1	Study	\$80283.6	\$80283.6	HSIP (23 U.S.C. 148)	N/A	Multiple/Varies	0	0	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
111591 - FRA 270/71 N Side Safety Study	Miscellaneous	Transportation safety planning	4	Study	\$65490.3	\$72767	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Interstate	172,995	65	State Highway Agency	Study	Data	Safety study to identify contributing

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															factors leading to crashes
111634 - TUS CR 82 3.330	Intersection geometry	Intersection geometry - other	1	Intersections	\$167646.31	\$167646.31	Penalty Funds (23 U.S.C. 164)	Rural	Minor Collector	913	0	County Highway Agency	Spot	Intersections	Reconstruct intersection profile to improve visibility and reduce angle crashes
111642 - ALL Thayer Road Safety Study	Miscellaneous	Transportation safety planning	1	Study	\$52810	\$52810	Penalty Funds (23 U.S.C. 164)	Rural	Local Road or Street	1,967	45	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
111657 - GRE-68-13.51	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	\$421359	\$421359	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	9,057	55	State Highway Agency	Spot	Intersections	Construct roundabout to reduce Rear end crashes
111658 - HAM IR 75 16.77	Miscellaneous	Transportation safety planning	1	Study	\$270000	\$270000	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Interstate	150,454	65	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
111728 - SUM CR 0029 05.72 (Fishcreek)	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	\$58302	\$152854.2	State and Local Funds	Urban	Minor Arterial	14,999	0	City or Municipal Highway Agency	Spot	Intersections	Upgrade existing signal hardware to reduce angle and rear end crashes
111842 - HAM CR 101 13.63	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	\$119886	\$119886	HSIP (23 U.S.C. 148)	Urban	Minor Collector	0	0	City or Municipal Highway Agency	Spot	Intersections	Construct roundabout to reduce angle crashes
111942 - BEL SR 7 8.140	Intersection traffic control	Modify traffic signal –other	1	Intersections	\$184580	\$184580	Penalty Funds (23 U.S.C. 164)	Rural	Principal Arterial-Other	15,755	55	State Highway Agency	Spot	Intersections	Upgrade existing signal hardware to reduce angle crashes
112038 - GRE SR 72 8.71	Roadway	Rumble strips – edge or shoulder	5.77	Miles	\$540000	\$540000	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

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112125 - SEN SR 100 9.30 Corridor Study	Intersection traffic control	Modify traffic signal timing – general retiming	7	Intersections	\$25649	\$25649	Penalty Funds (23 U.S.C. 164)	Urban	Minor Arterial	27,679	40	City or Municipal Highway Agency	Systemic	Intersections	Signal timing modifications to reduce intersection related crashes
112126 - SEN SR 18 12.06 Corridor Study	Intersection traffic control	Modify traffic signal timing – general retiming	6	Intersections	\$25904	\$25904	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	27,679	40	City or Municipal Highway Agency	Systemic	Intersections	Signal timing modifications to reduce intersection related crashes
112179 - SHE-47-13.97	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$80321.54	\$92046.6	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
112258 - HAM US-42 8.49	Pedestrians and bicyclists	Pedestrians and bicyclists – other	1	Lanes	\$96764.4	\$107516	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	16,827	35	State Highway Agency	Spot	Bicyclists	Construct bicycle lanes to reduce bicycle crashes
112274 - HAM Cincinnati STP	Miscellaneous	Transportation safety planning	1	Study	\$91307.7	\$101453	Penalty Funds (23 U.S.C. 164)	N/A	Multiple/Varies	0	0	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
112328 - JAC-35 (1.79-2.75) Rest Stop	Access management	Change in access - close or restrict existing access	0.96	Miles	\$239146.2	\$265718	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	17,122	60	State Highway Agency	Spot	Intersections	Consolidate access points to reduce severe injury crashes
112329 - SCI-SR 73-21.00 Safety	Intersection geometry	Add/modify auxiliary lanes	0.9	Miles	\$258419.7	\$287133	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
112430 - MOT-725/741 13.99/1.52	Miscellaneous	Transportation safety planning	31	Intersections	\$105381	\$105381	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	26,349	55	City or Municipal Highway Agency	Systemic	Intersections	Signal timing modifications to reduce intersection related crashes
112432 - STW Safety Analysis 2020	Miscellaneous	Transportation safety planning	1	Study	\$415800	\$462000	HSIP (23 U.S.C. 148)	N/A	Multiple/Varies	0	0	State Highway Agency	Study	Data	Safety study to identify contributing

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															factors leading to crashes
112480 - D04 2018 HSIP Studies	Miscellaneous	Transportation safety planning	3	Study	\$130347	\$144830	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	19,805	55	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
112557 - CUY SR 010 11.94 Study	Miscellaneous	Transportation safety planning	1	Study	\$7883	\$7883	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	13,156	25	State Highway Agency	Study	Intersections	Safety study to identify contributing factors leading to crashes
112617 - STW Safety Admin 4	Miscellaneous	Transportation safety planning	1	Study	\$29940.3	\$33267	Penalty Funds (23 U.S.C. 164)	N/A	N/A	15,415	35	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
112619 - ROS CR 608 Safety Study	Miscellaneous	Transportation safety planning	1	Study	\$19596	\$19596	Penalty Funds (23 U.S.C. 164)	Urban	Minor Collector	12,348	55	State Highway Agency	Study	Intersections	Safety study to identify contributing factors leading to crashes
112621 - WYA SR 199 Safety Study LSA	Miscellaneous	Transportation safety planning	1	Study	\$20550.6	\$22834	Penalty Funds (23 U.S.C. 164)	Urban	Minor Arterial	5,391	50	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
112630 - MIA Troy Signal Timing	Intersection traffic control	Modify traffic signal timing – general retiming	5	Intersections	\$25800	\$25800	Penalty Funds (23 U.S.C. 164)	Urban	Minor Arterial	27,679	40	State Highway Agency	Systemic	Intersections	Signal timing modifications to reduce intersection related crashes
112641 - SUSBR Systemic Analysis	Miscellaneous	Transportation safety planning	1	Study	\$67412.7	\$74903	Penalty Funds (23 U.S.C. 164)	N/A	Multiple/Varies	0	0	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
112643 - MVRPC Ped Systemic Analysis	Miscellaneous	Transportation safety planning	1	Study	\$32601.6	\$36224	HSIP (23 U.S.C. 148)	N/A	Multiple/Varies	0	0	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes

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112644 - STW Safety Plan Admin 3	Miscellaneous	Transportation safety planning	1	Study	\$28694.7	\$31883	HSIP (23 U.S.C. 148)	N/A	Multiple/Varies	0	0	State Highway Agency	Study	Data	Local road safety plan to identify regional safety priorities and action steps
112779 - RIC US 0042 Signal Timing	Intersection traffic control	Modify traffic signal timing – general retiming	7	Intersections	\$38554.74	\$38554.74	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	23,205	35	State Highway Agency	Systemic	Intersections	Signal timing modifications to reduce intersection related crashes
112835 - STW Safety Planning Tools	Miscellaneous	Transportation safety planning	1	Study	\$78268.5	\$86965	HSIP (23 U.S.C. 148)	N/A	Multiple/Varies	0	0	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
112851 - CHP CR 85 Safety Study	Miscellaneous	Transportation safety planning	1	Study	\$17250.3	\$17273.8	Penalty Funds (23 U.S.C. 164)	Rural	Minor Collector	908	45	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
113013 - ROS-159-0.41 Bridge St Safety	Roadway	Roadway - other	0.4	Miles	\$1214236.8	\$1214236.8	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	27,679	40	State Highway Agency	Spot	Intersections	Improve lane continuity through the corridor to reduce rear end and sideswipe crashes
113068 - Lancaster Street RSA	Miscellaneous	Road safety audits	1	Study	\$22565.7	\$22565.7	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	4,318	55	State Highway Agency	Study	Data	Road Safety Audit to identify contributing factors leading to crashes
113139 - SUM-8 Safety Study (Macedonia)	Miscellaneous	Transportation safety planning	1	Study	\$45176	\$45176	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other Freeways & Expressways	29,400	45	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
113144 - CUY Euclid Ave Ped Study	Miscellaneous	Road safety audits	1	Study	\$85745.15	\$95272.39	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	24,620	35	State Highway Agency	Study	Data	Pedestrian Road Safety Audit to identify contributing factors leading to crashes

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113189 - NOB SR 78 7.180 Study	Miscellaneous	Road safety audits	1	Study	\$29698.32	\$32998.13	Penalty Funds (23 U.S.C. 164)	Urban	Minor Arterial	7,753	45	State Highway Agency	Study	Data	Road Safety Audit to identify contributing factors leading to crashes
113223 - ROS-159 Signal Timing 2020	Intersection traffic control	Modify traffic signal timing – general retiming	9	Intersections	\$58706.72	\$58706.72	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	27,679	40	State Highway Agency	Systemic	Intersections	Signal timing modifications to reduce intersection related crashes
113247 - STW Annual Safety Study 1	Miscellaneous	Transportation safety planning	1	Study	\$450000	\$498031	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Interstate	122,741	60	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
113248 - STW Annual Safety Study 2	Miscellaneous	Transportation safety planning	1	Study	\$450000	\$569562.47	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	49,500	55	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
113269 - LUC Toledo Ped Safety Impv	Pedestrians and bicyclists	Pedestrians and bicyclists – other	70	Intersections	\$151852	\$151852	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
113274 - MOT-Dayton-PSIP-FY2021	Pedestrians and bicyclists	Pedestrians and bicyclists – other	1	Intersections	\$117567	\$117567	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other Freeways & Expressways	34,873	55	State Highway Agency	Systemic	Pedestrians	Improve pedestrian facilities to reduce pedestrian crashes
113278 - D04 PSIP Phase 2	Pedestrians and bicyclists	Pedestrians and bicyclists – other	3	Intersections	\$247716	\$260682	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other Freeways & Expressways	26,939	65	State Highway Agency	Systemic	Pedestrians	Improve pedestrian facilities to reduce pedestrian crashes
113291 - STW Safety Design Admin 2	Miscellaneous	Transportation safety planning	8	Study	\$6329	\$6329	HSIP (23 U.S.C. 148)	N/A	Multiple/Varies	0	0	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes

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113293 - FRA-Columbus-PSIP-FY2021	Pedestrians and bicyclists	Pedestrians and bicyclists – other	1	Intersections	\$187048	\$187048	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	24,146	35	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	\$266911	\$266911	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
113366 - LUC-20 Signal Timing Analysis	Intersection traffic control	Modify traffic signal timing – general retiming	12	Intersections	\$42100	\$42100	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	27,679	40	State Highway Agency	Systemic	Intersections	Signal timing modifications to reduce intersection related crashes
113389 - BRO-32 & Eastwood Rd-Safety	Miscellaneous	Transportation safety planning	1	Study	\$16266.6	\$18074	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	23,444	60	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
113390 - JAC-32 & 139-Safety Study	Miscellaneous	Transportation safety planning	1	Study	\$25178.4	\$27976	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	9,554	60	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
113395 - Piqua - Main St. Signal Timing	Intersection traffic control	Modify traffic signal timing – general retiming	9	Intersections	\$32200	\$32200	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	23,205	35	State Highway Agency	Systemic	Intersections	Signal timing modifications to reduce intersection related crashes
113502 - OMEGA Regional Safety Plan	Miscellaneous	Transportation safety planning	1	Study	\$161491.5	\$179435	HSIP (23 U.S.C. 148)	N/A	Multiple/Varies	0	0	State Highway Agency	Study	Data	Local road safety plan to identify regional safety priorities and action steps
113528 - HAM Cincinnati PSIP FY21	Pedestrians and bicyclists	Pedestrians and bicyclists – other	1	Intersections	\$231431	\$243970	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	32,467	35	State Highway Agency	Systemic	Pedestrians	Improve pedestrian facilities to reduce pedestrian crashes

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25596 - MAD/PIC IR 71 4.56/0.00	Roadside	Barrier- metal	3.2	Miles	\$144265.8	\$803878.68	State and Local Funds	Rural	Principal Arterial-Interstate	42,699	70	State Highway Agency	Spot	Roadway Departure	Upgrade roadside hardware to reduce fixed object crashes
77529 - HUR US 0020 10.76	Roadway delineation	Improve retroreflectivity	5.5	Miles	\$265720	\$7421550.93	State and Local Funds	Urban	Principal Arterial-Other	11,348	60	State Highway Agency	Systemic	Roadway Departure	Install wet reflective pavement markings to reduce rear end crashes
80192 - MAH 680/164 Interchange Part 1	Interchange design	Convert at-grade intersection to interchange	1	Interchanges	\$175450.29	\$175450.29	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Interstate	9,108	65	State Highway Agency	Spot	Intersections	Construct new interchange to reduce crashes related to turnpike traffic and trip generators
81766 - FAI CR 7 01.57	Intersection geometry	Intersection geometry - other	4	Intersections	\$451005	\$451005	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	37,336	45	City or Municipal Highway Agency	Spot	Intersections	Constructing roundabout and turn lanes at intersection within the corridor to reduce rear end crashes
84594 - WAS SR 339 0.000	Roadway	Rumble strips – center	4.38	Miles	\$28546.2	\$2399341.19	State and Local Funds	Urban	Principal Arterial-Other	8,708	55	State Highway Agency	Systemic	Roadway Departure	Install centerline rumble strips to reduce head on crashes
85360 - CUY SR 043 10.61	Roadway	Roadway narrowing (road diet, roadway reconfiguration)	3.627	Miles	\$3908826	\$5230560.9	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	14,171	35	City or Municipal Highway Agency	Spot	Bicyclists	Perform a road diet to reduce bicycle crashes
87728 - RIC US 0030 04.07	Roadway	Pavement surface – high friction surface	5.19	Miles	\$2000	\$3181091.02	State and Local Funds	Urban	Principal Arterial-Other Freeways & Expressways	35,799	70	State Highway Agency	Spot	Roadway Departure	Install high friction resurface treatment to reduce fixed object crashes
90415 - SUM SR 0241 04.10	Intersection traffic control	Modify control – Modern Roundabout	3	Intersections	\$1100807.4	\$4660767.4	State and Local Funds	Urban	Principal Arterial-Other	26,585	45	City or Municipal Highway Agency	Spot	Intersections	Construct roundabouts to reduce angle

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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
															and left turn crashes
90949 - ALL Lima Wayne/High Streets	Pedestrians and bicyclists	Pedestrians and bicyclists - other	3	Intersections	\$1905000	\$2616307	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	5,574	25	City or Municipal Highway Agency	Spot	Pedestrians	Signal head and pedestrian improvements to reduce pedestrian crashes
92953 - MED SR 0018 12.99	Intersection geometry	Add/modify auxiliary lanes	2.1	Miles	\$17946	\$3607130.88	State and Local Funds	Urban	Principal Arterial-Other	27,350	40	State Highway Agency	Spot	Intersections	Construct two way left turn lane to reduce rear end crashes
93455 - RIC US 0030 09.26	Interchange design	Interchange improvements	3.8	Miles	\$6589800	\$63112752.69	State and Local Funds	Urban	Principal Arterial-Other Freeways & Expressways	39,479	60	State Highway Agency	Spot	Intersections	Interchange improvements to reduce rear end crashes
94123 - SUM/WAY SR 21/585 0.00/VAR	Intersection geometry	Intersection geometry - other	1	Intersections	\$1393776	\$6092481.35	State and Local Funds	Urban	Principal Arterial-Interstate	62,621	65	State Highway Agency	Spot	Intersections	Install RCUT (among other improvements) to reduce rear end crashes
94132 - MAH US 0224 13.64	Roadway	Pavement surface - other	6.5	Miles	\$515350.8	\$9215539.03	State and Local Funds	Urban	Principal Arterial-Other	33,502	45	State Highway Agency	Spot	Roadway Departure	Install high friction resurface treatment to reduce rear end crashes
94140 - MAH 76/VAR 1.30/VAR	Roadside	Barrier - cable	8	Miles	\$1309720	\$4339453.4	State and Local Funds	Urban	Principal Arterial-Interstate	51,105	70	State Highway Agency	Systemic	Roadway Departure	Install cable median barrier to reduce cross median crashes
94214 - ALL IR 75 15.80	Roadway	Pavement surface - other	13.2	Miles	\$1018207.63	\$21118117.29	State and Local Funds	Rural	Principal Arterial-Interstate	35,913	70	State Highway Agency	Systemic	Roadway Departure	Upgrade surface treatment to reduce fixed object crashes
94393 - ERI SR 0113 06.84	Shoulder treatments	Widen shoulder - paved or other (includes add shoulder)	1.05	Miles	\$155277.07	\$309317	State and Local Funds	Urban	Minor Collector	7,296	55	State Highway Agency	Spot	Bicyclists	Widen shoulders to provide bike lanes
94401 - RIC SR 0039 05.86	Roadway	Pavement surface - high friction surface	7.29	Miles	\$4282.77	\$221170.45	State and Local Funds	Urban	Principal Arterial-Other	13,242	55	State Highway Agency	Spot	Roadway Departure	Install high friction resurface

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															treatment to reduce fixed object crashes
94741 - HAM IR 716.86	Roadway	Roadway widening - add lane(s) along segment	3.14	Miles	\$125000	\$125000	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Interstate	128,802	65	State Highway Agency	Spot	Roadway Departure	Improve lane continuity through the corridor to reduce rear end and sideswipe crashes
95446 - MAH CR 0151 03.57 (South Ave.)	Intersection geometry	Add/modify auxiliary lanes	3	Intersections	\$1330953	\$2860650.45	State and Local Funds	Urban	Minor Arterial	12,075	0	County Highway Agency	Spot	Intersections	Construct two way left turn lane to reduce rear end crashes
95570 - FRA SR 317 10.63	Pedestrians and bicyclists	Install sidewalk	5	Miles	\$1824000	\$14970995.62	State and Local Funds	Urban	Principal Arterial-Other	36,283	50	City or Municipal Highway Agency	Spot	Pedestrians	Install sidewalks to reduce pedestrian crashes
95722 - WOO SR 25 15.82 Resurf	Roadway	Rumble strips – center	4.43	Miles	\$58491	\$1988309.76	State and Local Funds	Urban	Minor Arterial	14,587	60	State Highway Agency	Systemic	Roadway Departure	Install centerline rumble strips to reduce head on crashes
96346 - STA US 0062 24.90	Intersection geometry	Intersection realignment	1	Intersections	\$192826.33	\$192826.33	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	47,327	55	State Highway Agency	Spot	Intersections	Remove skewed intersection by constructing two separate intersections to reduce rear end crashes
96533 - BUT/PRE GPS FY2019	Roadway	Rumble strips – center	7.18	Miles	\$2000	\$1498052.45	State and Local Funds	Urban	Principal Arterial-Other	4,717	55	State Highway Agency	Systemic	Roadway Departure	Install centerline rumble strips to reduce head on crashes
96671 - STA US 250/VAR 0.00/VAR	Roadway	Rumble strips – edge or shoulder	6	Miles	\$7500	\$2875583.45	State and Local Funds	Urban	Principal Arterial-Other	6,787	55	State Highway Agency	Systemic	Roadway Departure	Install centerline rumble stripes to reduce head on crashes

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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
98383 - STA SR 43/VAR 12.70/VAR	Roadway	Rumble strips – center	6.66	Miles	\$10300	\$2368644.78	State and Local Funds	Urban	Principal Arterial-Interstate	93,915	55	State Highway Agency	Systemic	Roadway Departure	Install centerline rumble strips to reduce head on crashes
98390 - ATB US 6/VAR 25.18/VAR	Roadway	Rumble strips – edge or shoulder	11.68	Miles	\$79670	\$1814762.85	State and Local Funds	Urban	Minor Arterial	6,062	55	State Highway Agency	Systemic	Roadway Departure	Install edgeline rumble stripes to reduce fixed object crashes
98469 - PUT/HAN/HAR US 224/SR 31/65-Var.	Roadway	Rumble strips – center	24.5	Miles	\$52029	\$2138897.03	State and Local Funds	Urban	Minor Arterial	6,616	55	State Highway Agency	Systemic	Roadway Departure	Install centerline rumble stripes to reduce head on crashes
98509 - TRU SR 45/VAR 10.66/VAR	Roadway	Rumble strips – center	5.9	Miles	\$11000	\$66334.99	State and Local Funds	Urban	Minor Arterial	12,047	55	State Highway Agency	Systemic	Roadway Departure	Install centerline rumble strips to reduce head on crashes
98585 - POR Tallmadge Rd (CR 18)	Interchange design	Interchange design - other	1	Interchanges	\$60203.6	\$461561.51	State and Local Funds	Urban	Principal Arterial-Interstate	59,899	65	County Highway Agency	Spot	Intersections	Interchange improvements to reduce angle and rear end crashes
99420 - FRA CR 505 02.65	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	\$39577.3	\$39577.3	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	26,796	40	City or Municipal Highway Agency	Spot	Intersections	Modify lane assignments and reconstruct traffic signal to reduce rear end crashes
99681 - GEA SR 044 13.15	Roadway	Rumble strips – center	3.42	Miles	\$48441.13	\$842706.1	State and Local Funds	Urban	Principal Arterial-Other	10,004	55	State Highway Agency	Systemic	Roadway Departure	Install centerline rumble stripes to reduce head on crashes
99885 - FRA 104 7.570	Intersection geometry	Intersection realignment	1	Intersections	\$3275500	\$3733487.71	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	41,980	55	State Highway Agency	Spot	Intersections	Separation of a braided ramp with local road to reduce high speed angle and wrong way crashes

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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
103744 - WOO US 20 8.87 Turn Lane Sfty	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$17841.92	\$40261.21	State and Local Funds	Urban	Principal Arterial-Other	14,402	55	State Highway Agency	Spot	Intersections	Construct left turn lanes to reduce left turn, angle and rear end crashes
103754 - BUT IR 75 5.35	Intersection geometry	Add/modify auxiliary lanes	3	Intersections	\$168789.35	\$168789.35	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Interstate	135,667	65	County Highway Agency	Spot	Intersections	Construct an additional left turn lane to reduce rear end crashes and improve ramp storage capacity
103790 - MOT SR 725/741 14.85/2.93	Intersection traffic control	Intersection signing – add basic advance warning	1	Intersections	\$414216	\$492455.11	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	30,320	55	State Highway Agency	Spot	Intersections	Install overhead signage to reduce rear end crashes
103791 - CLA US 40 16.82	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	\$2667.93	\$20442.72	State and Local Funds	Urban	Principal Arterial-Other	15,512	55	City or Municipal Highway Agency	Spot	Intersections	Upgrade existing signal hardware to reduce left turn and crashes
103884 - GEA SR 608 03.09 Buggy Lane	Shoulder treatments	Widen shoulder – paved or other (includes add shoulder)	0.47	Miles	\$383039.4	\$383039.4	HSIP (23 U.S.C. 148)	Rural	Minor Collector	7,423	55	State Highway Agency	Spot	Roadway Departure	Widen shoulders to reduce buggy crashes
104247 - HAN Lincoln/Blanchard Paths	Roadway	Roadway narrowing (road diet, roadway reconfiguration)	1.3	Miles	\$1292248.51	\$1855755.01	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	12,656	35	City or Municipal Highway Agency	Spot	Bicyclists	Perform a road diet to reduce bicycle crashes
104428 - WOO CR 107 1.73 Oregon Rd	Roadway	Roadway narrowing (road diet, roadway reconfiguration)	2.9	Miles	\$311202.7	\$311202.7	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	7,438	45	County Highway Agency	Spot	Bicyclists	Perform a road diet to reduce bicycle crashes
104615 - SHE SR 47 14.51	Roadside	Barrier- metal	0.82	Miles	\$847872.22	\$2230170.93	State and Local Funds	Urban	Minor Arterial	18,923	35	City or Municipal Highway Agency	Spot	Roadway Departure	Signal upgrade and guardrail replacements to reduce cross-median crashes
104623 - DEL SR 61 4.71 (at Wilson Rd)	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	\$292500	\$424291.58	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	5,511	55	State Highway Agency	Spot	Intersections	Roundabout to reduce angle crashes

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104695 - BUT SR 177 0.64	Intersection traffic control	Modify traffic signal –other	1	Intersections	\$2894678	\$2894678	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	22,897	25	City or Municipal Highway Agency	Spot	Intersections	Upgrade existing signal hardware to reduce angle crashes
104739 - STA CR 0228 08.32 Portage St	Intersection traffic control	Modify traffic signal – modernization/replacement	7	Intersections	\$329839.5	\$583561.3	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	23,688	45	County Highway Agency	Spot	Intersections	Upgrade existing signal hardware to reduce rear end crashes
104740 - TRU CR 0329 3.27 E Market St	Intersection geometry	Intersection geometry - other	1	Intersections	\$169371.17	\$738582.84	State and Local Funds	Urban	Principal Arterial-Other	19,597	45	State Highway Agency	Spot	Intersections	Constructed a barrier protected through lane to separate high speed traffic from signalized crossing movement to reduce high speed angle crashes
104864 - LOR SR 0113 03.75 Baumhart Sfty	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	\$536636.7	\$536636.7	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	4,897	55	County Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
105519 - DEL US 42 9.690	Roadway	Rumble strips – center	9.48	Miles	\$36608.06	\$2311263.15	State and Local Funds	Urban	Minor Arterial	7,467	55	State Highway Agency	Systemic	Roadway Departure	Install centerline rumble strips to reduce head on crashes
106107 - CUY SR 175 13.31 Safety	Intersection geometry	Intersection geometry - other	3	Intersections	\$110175.6	\$114039	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	15,086	35	State Highway Agency	Spot	Intersections	Remove slip ramps and upgrade traffic signal to reduce rear end crashes
106261 - GEA US 322 07.78 Safety	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$126000	\$218442	State and Local Funds	Rural	Minor Arterial	9,400	45	State Highway Agency	Spot	Intersections	Construct left turn lanes to reduce left turn, angle and rear end crashes
106330 - LUC US 20 10.66 WB Left turn add	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$810539.62	\$810539.62	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	30,444	40	State Highway Agency	Spot	Intersections	Construct left turn lanes to reduce left

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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
															turn, angle and rear end crashes
106389 - LUC US 24 15.61 Inters Imprvmts	Intersection geometry	Add/modify auxiliary lanes	2	Intersections	\$319320	\$398740	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	20,403	50	City or Municipal Highway Agency	Spot	Intersections	Construct left turn lanes to reduce left turn, angle and rear end crashes
106393 - LUC US 20A 6.59 Weckerly Roundbt	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	\$1266752.81	\$1266752.81	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	5,270	55	County Highway Agency	Spot	Intersections	Construct roundabout to reduce angle crashes
106402 - FAY US 62 17.64	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$875574	\$902213.77	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	7,636	55	State Highway Agency	Spot	Intersections	Construct left turn lanes to reduce left turn, angle and rear end crashes
106404 - HAM US 27 10.39	Pedestrians and bicyclists	Pedestrians and bicyclists – other	1	Intersections	\$480618	\$480618	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	24,372	35	State Highway Agency	Spot	Pedestrians	Improve pedestrian facilities to reduce pedestrian crashes
106405 - DEL-36-25.61	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$1603935	\$1728732.33	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	9,946	55	State Highway Agency	Spot	Intersections	Construct left turn lanes to reduce left turn, angle and rear end crashes
106406 - FRA-104-4.43	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$55800	\$144987	State and Local Funds	Urban	Minor Arterial	11,281	55	State Highway Agency	Spot	Intersections	Construct left turn lanes to reduce left turn, angle and rear end crashes
106411 - HAM IR 275 28.29 - Part 1	Interchange design	Interchange design - other	1	Interchanges	\$340115.5	\$340115.5	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Interstate	109,393	60	State Highway Agency	Spot	Intersections	Interchange improvements to reduce angle and rear end crashes
106416 - POR SR 0043 18.23	Intersection geometry	Add/modify auxiliary lanes	1.5	Miles	\$100445.4	\$100445.4	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	19,564	35	City or Municipal	Spot	Intersections	Construct two way left turn lane to reduce

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												Highway Agency			rear end crashes
106471 - FRA/DEL-71-27.77/0.00	Interchange design	Acceleration / deceleration / merge lane	3	Miles	\$5530000	\$6446805.57	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Interstate	157,923	65	State Highway Agency	Spot	Intersections	Install auxiliary lane to reduce sideswipe passing and rear end crashes
106747 - RIC SR 0309 08.10	Interchange design	Interchange design - other	2	Ramps	\$6752.07	\$6752.07	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	11,387	50	City or Municipal Highway Agency	Spot	Intersections	Remove slip ramps and replace with right turn lanes to reduce rear end and angle crashes
106981 - WAR US 22 7.12	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$100000	\$100000	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
107070 - MED SR 0003 09.04	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	\$236423.7	\$384112	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	12,117	55	State Highway Agency	Spot	Intersections	Construct roundabout to reduce rear end crashes
107130 - HAM CR 284 1.33	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	\$99029.7	\$119632.5	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	11,045	0	City or Municipal Highway Agency	Spot	Intersections	Construct roundabout to reduce angle crashes
107203 - SUM US 0224 12.20	Access management	Change in access - close or restrict existing access	5	Access points	\$454486.8	\$456404.7	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	29,275	55	City or Municipal Highway Agency	Spot	Intersections	Access management improvements to reduce rear end and angle crashes
107214 - DEL US 36 14.850	Access management	Change in access - close or restrict existing access	7	Access points	\$2103657.9	\$2202733.37	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	24,854	60	State Highway Agency	Spot	Intersections	Close median opening and construct restricted crossing u turn to reduce high speed angle and rear end crashes

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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
107240 - FRA CR 14 (Refugee) 1.99	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	\$76802.16	\$76802.16	Penalty Funds (23 U.S.C. 164)	Urban	Minor Arterial	11,080	0	City or Municipal Highway Agency	Spot	Intersections	Upgrade existing signal hardware to reduce rear end crashes
107518 - UNIMARYSVILLE AT STUDY	Roadway	Rumble strips – center	1	Study	\$96668	\$96668	HSIP (23 U.S.C. 148)	Urban	Minor Collector	4,311	55	City or Municipal Highway Agency	Study	Data	Safety study to identify contributing factors leading to pedestrian and bicycle crashes
107520 - MOT SR 48 N Main Street Study	Miscellaneous	Road safety audits	1	Study	\$75000	\$76710.65	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	17,359	35	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
107684 - ALL/AUG US 30/SR 117 Var	Roadway	Rumble strips – center	11.33	Miles	\$8030.88	\$97109.45	State and Local Funds	Urban	Principal Arterial-Other	11,598	65	State Highway Agency	Systemic	Roadway Departure	Install centerline rumble stripes to reduce head on crashes
107821 - MRW SR 95 15.330	Roadside	Barrier- metal	0.2	Miles	\$5634	\$1326664.6	State and Local Funds	Rural	Minor Collector	9,285	55	State Highway Agency	Spot	Roadway Departure	Upgrade roadside hardware to reduce fixed object crashes
107822 - UNI US 42 3.91	Intersection geometry	Intersection geometry - other	2	Intersections	\$103541.4	\$115046	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	13,195	55	State Highway Agency	Spot	Intersections	Install traffic signal to reduce angle and rear end crashes
108054 - D07 Sign FY20	Roadway signs and traffic control	Curve-related warning signs and flashers	1	District	\$192600	\$1523340.3	State and Local Funds	Urban	Principal Arterial-Interstate	121,136	70	State Highway Agency	Systemic	Roadway Departure	Sign upgrade and replacement to reduce fixed object crashes
108072 - STW Safety Program Training	Miscellaneous	Training and workforce development	1	Training	\$110000	\$118125.51	HSIP (23 U.S.C. 148)	N/A	Multiple/Varies	0	0	State Highway Agency	Study	Data	Safety course development for career professionals
108230 - WAR Salem Township Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$1629.99	\$43394.99	State and Local Funds	Rural	Multiple/Varies	0	0	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway

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															departure and intersection crashes along roadway
108239 - SAN Rawson Ave Reconst Phase 1	Access management	Change in access - close or restrict existing access	7	Access points	\$123000	\$1786633.92	State and Local Funds	Urban	Minor Arterial	11,995	0	City or Municipal Highway Agency	Spot	Intersections	Access management improvements to reduce angle crashes
108306 - HOL Walnut Creek Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$37.98	\$55.56	HSIP (23 U.S.C. 148)	Rural	Multiple/Varies	0	0	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
108341 - WAS SR 77.250	Intersection traffic control	Modify traffic signal –other	3	Intersections	\$210510	\$244630.01	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	18,254	50	City or Municipal Highway Agency	Systemic	Intersections	Install advanced signal detection throughout corridor to reduce rear end crashes
108470 - FAI TR 201 01.10	Intersection geometry	Add/modify auxiliary lanes	2	Intersections	\$437890.08	\$437890.08	HSIP (23 U.S.C. 148)	Urban	Minor Collector	7,253	35	City or Municipal Highway Agency	Spot	Intersections	Construct left turn lanes to reduce left turn, angle and rear end crashes
108480 - CUY IR 480 14.57 Auxiliary Lane	Interchange design	Acceleration / deceleration / merge lane	0.6	Miles	\$1182798	\$1193899.38	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Interstate	142,266	60	State Highway Agency	Spot	Intersections	Install auxiliary lane to reduce sideswipe passing and rear end crashes
108617 - CLA Main/Western Signal Upgrade	Intersection traffic control	Modify traffic signal –other	1	Intersections	\$255000	\$255000	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	4,382	25	City or Municipal Highway Agency	Spot	Intersections	Upgrade existing signal hardware to reduce angle crashes
108633 - FRA 71 Ramp/Silver at Hudson	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$552600	\$552600	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	24,698	65	State Highway Agency	Spot	Intersections	Construct right turn lane to reduce rear end crashes

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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
108637 - BUT TR 131 1.15	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	\$1213767.35	\$1213767.35	HSIP (23 U.S.C. 148)	Urban	Major Collector	7,712	0	County Highway Agency	Spot	Intersections	Construct roundabout to reduce fixed object crashes
108640 - GRE US 42 3.15	Intersection geometry	Intersection geometry - other	1	Intersections	\$1735047	\$1896777.73	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
108682 - LUC CR 10 4.94 Lsky/Lewis Sfty	Intersection geometry	Intersection geometry - other	1	Intersections	\$70664	\$71071	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	13,568	35	City or Municipal Highway Agency	Spot	Intersections	Intersection improvements to reduce rear end crashes
108683 - LUC CR 10 0.85 Lasky/Talmge Sfty	Intersection geometry	Intersection geometry - other	1	Intersections	\$79773	\$181596	State and Local Funds	Urban	Principal Arterial-Other	16,694	0	City or Municipal Highway Agency	Spot	Intersections	Intersection improvements to reduce rear end crashes
108684 - SAN US 20 28.16 Sfty	Intersection traffic control	Modify traffic signal – add additional signal heads	1	Intersections	\$387431	\$580449.36	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	12,402	60	State Highway Agency	Spot	Intersections	Install supplemental signal head to reduce angle crashes
108685 - DEL-42-1.41	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$2517687	\$2709321.5	Penalty Funds (23 U.S.C. 164)	Rural	Principal Arterial-Other	13,576	55	State Highway Agency	Spot	Intersections	Construct left turn lanes to reduce left turn, angle and rear end crashes
108734 - PIK SR 32 15.77 Safety	Intersection geometry	Intersection geometry - other	1	Intersections	\$1345502.7	\$2516896	State and Local Funds	Urban	Principal Arterial-Other	8,861	60	State Highway Agency	Spot	Intersections	Construct restricted crossing u turns to reduce angle crashes
108742 - MAH CR32 18.11 (W Reserve TWLTL)	Intersection geometry	Add/modify auxiliary lanes	1.5	Miles	\$682479.9	\$682479.9	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	18,218	0	County Highway Agency	Spot	Intersections	Construct two way left turn lane to reduce rear end crashes
108804 - WAS IR 77 0.000	Roadway delineation	Improve retroreflectivity	6.63	Miles	\$173709.26	\$309947.35	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Interstate	20,757	70	State Highway Agency	Systemic	Roadway Departure	Install wet reflective pavement markings to reduce rear end crashes

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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
108841 - MUS CR 2004 00.00	Miscellaneous	Transportation safety planning	1	Study	\$19726	\$19726	Penalty Funds (23 U.S.C. 164)	Urban	Minor Arterial	10,154	25	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
108957 - MOT Dayton Citywide SRTS	Pedestrians and bicyclists	Pedestrians and bicyclists - other	1	Intersections	\$400000	\$400000	Penalty Funds (23 U.S.C. 164)	Urban	Minor Arterial	9,785	30	City or Municipal Highway Agency	Systemic	Pedestrians	Upgrade crosswalks and signals to reduce pedestrian crashes
109014 - FRA-70-21.33	Intersection geometry	Intersection geometry - other	1	Intersections	\$150000	\$408356	State and Local Funds	Urban	Principal Arterial-Other	36,283	50	State Highway Agency	Spot	Intersections	Removal of local street intersection with interstate ramp to reduce angle and rear end crashes
109069 - UNI SR 739 0.630	Roadside	Barrier- metal	0.3	Miles	\$25893	\$5412656.4	State and Local Funds	Rural	Minor Collector	8,774	55	State Highway Agency	Spot	Roadway Departure	Upgrade roadside hardware to reduce fixed object crashes
109129 - ASD US 0250 12.74	Intersection traffic control	Modify control - Modern Roundabout	1	Intersections	\$371700	\$371700	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	7,119	50	State Highway Agency	Spot	Intersections	Construct roundabout to reduce angle crashes
109313 - WIL SR 107 9.50 Ped Sgnls	Pedestrians and bicyclists	Pedestrian signal	2	Intersections	\$6748.09	\$104303.64	State and Local Funds	Rural	Minor Collector	5,375	55	State Highway Agency	Spot	Pedestrians	Improve pedestrian facilities to reduce pedestrian crashes
109319 - TUS CR-82-2.10/5.85 Safety Study	Miscellaneous	Transportation safety planning	1	Study	\$39528	\$39528	State and Local Funds	Rural	Minor Collector	913	0	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
109329 - LIC US 62 00.49	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$681374.7	\$681374.7	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	12,791	50	State Highway Agency	Spot	Intersections	Construct left turn lanes to reduce left turn, angle and rear end crashes

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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
109347 - POR CR 0502 00.180 (N Water St)	Pedestrians and bicyclists	Pedestrians and bicyclists - other	1	Intersections	\$54972	\$1295511.6	State and Local Funds	Urban	Minor Arterial	10,072	25	City or Municipal Highway Agency	Spot	Pedestrians	Improve pedestrian facilities to reduce pedestrian crashes
109352 - HAM CR 453/SR 126 0.32/6.78	Roadside	Barrier - cable	7.5	Miles	\$1626930	\$1648513.55	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other Freeways & Expressways	59,910	60	State Highway Agency	Systemic	Roadway Departure	Install cable median barrier to reduce cross median crashes
109354 - HAM US 42 9.60	Pedestrians and bicyclists	Install sidewalk	0.3	Miles	\$370800	\$370800	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	16,827	35	State Highway Agency	Systemic	Pedestrians	Install sidewalks to reduce pedestrian crashes
109357 - CLE SR 28 1.76	Intersection geometry	Intersection geometry - other	1	Intersections	\$323435.5	\$489666	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
109362 - WYA US 23 0.04	Intersection geometry	Intersection geometry - other	7	Intersections	\$279000	\$355952	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	17,902	65	State Highway Agency	Spot	Intersections	Construct restricted crossing u turns to reduce angle crashes
109364 - CLI SR 73 14.35	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$400000	\$505865.93	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	8,272	55	County Highway Agency	Spot	Intersections	Construct left turn lanes to reduce left turn, angle and rear end crashes
109436 - MOT IR 75 9.53	Intersection traffic control	Modify traffic signal - modernization/replacement	4	Intersections	\$25241	\$86035.2	State and Local Funds	Urban	Principal Arterial-Interstate	107,759	65	State Highway Agency	Spot	Intersections	Upgrade existing signal hardware to reduce rear end crashes
109455 - LOR SR 0083 02.55	Intersection traffic control	Modify control - Modern Roundabout	2	Intersections	\$89671.6	\$110663	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	8,053	55	State Highway Agency	Spot	Intersections	Construct two roundabouts to reduce angle crashes
109520 - TRU SR 0046 07.81	Interchange design	Interchange design - other	1	Interchanges	\$372363.65	\$487905	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	17,422	40	State Highway Agency	Spot	Intersections	Construct a diverging diamond

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															interchange to reduce rear end and angle crashes
109550 - MAR-98-6.22 (at SR 529)	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	\$225000	\$372384	HSIP (23 U.S.C. 148)	Rural	Minor Collector	5,710	55	State Highway Agency	Spot	Intersections	Roundabout to reduce angle crashes
109555 - HOL County Safety Plan	Miscellaneous	Transportation safety planning	1	Study	\$22598.1	\$25109	Penalty Funds (23 U.S.C. 164)	N/A	Multiple/Varies	0	0	State Highway Agency	Study	Data	Local road safety plan to identify regional safety priorities and action steps
109571 - D08 Interchange Lighting	Lighting	Lighting - other	4	Interchanges	\$1755685	\$1883162.5	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Interstate	83,000	70	State Highway Agency	Spot	Intersections	Install interchange lighting to reduce nighttime related crashes
109579 - WAS SR 7 24.860	Lighting	Intersection lighting	2	Intersections	\$783.38	\$29762.38	State and Local Funds	Urban	Principal Arterial-Other	32,218	45	City or Municipal Highway Agency	Spot	Intersections	Install lighting to reduce rear end crashes
109598 - LUC CR 4 9.77 Monroe St Improve	Intersection geometry	Intersection geometry - other	3	Intersections	\$516319.5	\$516319.5	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	22,112	0	City or Municipal Highway Agency	Spot	Intersections	Construction intersection improvements and access restriction to reduce rear end and sideswipe-passing crashes
109600 - LAW US 52 20.45 Safety	Intersection geometry	Intersection geometry - other	1	Intersections	\$797349.01	\$841030.69	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other Freeways & Expressways	25,694	55	State Highway Agency	Spot	Intersections	Construct a green t intersection to reduce angle crashes
109637 - OTT SR 163 33.85 Roundabout	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	\$130795.6	\$130795.6	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

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109640 - LUC SR 295 6.65 Roundabout	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	\$207000	\$207000	HSIP (23 U.S.C. 148)	Rural	Minor Collector	2,372	50	State Highway Agency	Spot	Intersections	Construct roundabout to reduce angle crashes
109641 - HEN SR 109 21.06 RRFB Libry Cntr	Pedestrians and bicyclists	Pedestrian signal	1	Intersections	\$42829	\$42829	HSIP (23 U.S.C. 148)	Rural	Minor Collector	3,672	35	State Highway Agency	Spot	Pedestrians	Improve pedestrian facilities to reduce pedestrian crashes
109692 - TUS CR 103 0.00	Shoulder treatments	Widen shoulder – paved or other (includes add shoulder)	1.89	Miles	\$495300	\$495300	HSIP (23 U.S.C. 148)	Rural	Minor Collector	1,617	0	County Highway Agency	Spot	Roadway Departure	Widen shoulders to reduce fixed object crashes
109892 - STW Multi-Modal Design Guide	Miscellaneous	Transportation safety planning	1	Study	\$598778.07	\$665309	Penalty Funds (23 U.S.C. 164)	N/A	Multiple/Varies	0	0	State Highway Agency	Study	Data	Safety study to identify contributing factors leading to crashes
109917 - SCI US 23 5.49 Safety	Intersection geometry	Intersection geometry - other	1	Intersections	\$98054.6	\$98054.6	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	19,696	55	State Highway Agency	Spot	Intersections	Intersection improvements to reduce rear end crashes
110124 - STW ATAFY2020	Miscellaneous	Training and workforce development	1	Training	\$99000	\$100639.14	HSIP (23 U.S.C. 148)	N/A	Multiple/Varies	0	0	State Highway Agency	Study	Data	Safety course development for career professionals related to active transportation facility design
110189 - HOL Tree Cutting Phase 1	Roadside	Removal of fixed objects (trees, poles, etc.)	3312	Numbers	\$1961.84	\$1961.84	HSIP (23 U.S.C. 148)	Rural	Minor Collector	376	45	County Highway Agency	Systemic	Roadway Departure	Removal of trees to reduce fixed object crashes
110203 - PAU Auglaize Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$784.03	\$784.03	HSIP (23 U.S.C. 148)	Rural	Multiple/Varies	0	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway

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110204 - SEN Scipio Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$22691.16	\$22691.16	HSIP (23 U.S.C. 148)	Rural	Multiple/Varies	235	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110205 - SAN Woodville Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$44694.87	\$44694.87	HSIP (23 U.S.C. 148)	Rural	Multiple/Varies	235	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110207 - HUR Wakeman Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$16719.03	\$16719.03	HSIP (23 U.S.C. 148)	Rural	Multiple/Varies	0	0	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110208 - SEN Eden Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$27461.95	\$27461.95	HSIP (23 U.S.C. 148)	Rural	Multiple/Varies	235	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110211 - FUL Clinton Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$11383.09	\$11383.09	HSIP (23 U.S.C. 148)	Urban	Multiple/Varies	1,376	45	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110213 - BUT SR 747 1.01/2.07	Intersection traffic control	Modify traffic signal – modernization/replacement	2	Intersections	\$458390	\$458390	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	29,594	45	State Highway Agency	Spot	Intersections	Upgrade existing signal hardware to reduce rear end crashes

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110250 - LOR Henrietta Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$16544.85	\$16544.85	HSIP (23 U.S.C. 148)	Urban	Multiple/Varies	0	0	Town or Township Highway Agency	Systemic	Roadway Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
110016 - FUL US 127 Meridian Rd NS	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$158431.36	\$354781	State and Local Funds	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes
110108 - FRA-3-20.41 Signal Studies	Intersection traffic control	Modify traffic signal timing – general retiming	5	Intersections	\$19248	\$19248	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	18,030	45	State Highway Agency	Systemic	Intersections	Studying and retiming intersection to reduce intersection crashes
109170 - GRE VAR Guardrail FY 20	Roadside	Barrier- metal	14.432	Miles	\$300000	\$300000	HSIP (23 U.S.C. 148)	Urban	Minor Collector	5,600	45	County Highway Agency	Systemic	Roadway Departure	Create/Improve guard rails to reduce fixed object crashes
110193 - WAS SR 7 CSX	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$402320	\$409320	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes
109519 - UNI-42-4.51/4.68	Roadway	Roadway widening - add lane(s) along segment	1	Locations	\$1511694	\$1526961.12	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	13,195	55	State Highway Agency	Spot	Roadway Departure	Widening the roadway to reduce fixed object crashes
110219 - PIK US 23 & Market Street Signal	Intersection traffic control	Modify traffic signal –other	1	Intersections	\$57896	\$57896	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	21,746	60	Railroad	Spot	Intersections	Intersection improvements to reduce intersection crashes
104763 - BEL VAR PM Phase 4	Roadway delineation	Longitudinal pavement markings - remarking	5.49	Miles	\$176000	\$176000	HSIP (23 U.S.C. 148)	Urban	Minor Collector	489		County Highway Agency	Systemic	Roadway Departure	Improve roadway surface to reduce fixed object crashes
110340 - STW Crash Logging	Miscellaneous	Data collection	1	Study	\$16718	\$16718	HSIP (23 U.S.C. 148)	N/A	N/A	0		State Highway Agency	Study	Data	Collecting crash data to reduce crashes
110341 - STW Safety Design Admin	Miscellaneous	Miscellaneous - other	1	Project Design	\$27911.7	\$31013	HSIP (23 U.S.C. 148)	N/A	N/A	0		State Highway Agency	Project Design	Data	Coordination of local safety design

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															contract to reduce crashes
109311 - HAS VAR PM Phase 2	Roadway delineation	Longitudinal pavement markings - remarking	7.1	Miles	\$195233	\$195233	HSIP (23 U.S.C. 148)	Rural	Major Collector	85		County Highway Agency	Systemic	Roadway Departure	Improve roadway surface to reduce fixed object crashes
109426 - GEA CR-PM FY2020	Roadway delineation	Longitudinal pavement markings - remarking	51	Locations	\$373976.72	\$373976.72	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	11,150	45	County Highway Agency	Systemic	Roadway Departure	Improve roadway surface to reduce fixed object crashes
105219 - HAM IR 71 0.56	Roadway delineation	Longitudinal pavement markings - remarking	0.67	Miles	\$51027.86	\$1546423.91	State and Local Funds	Urban	Principal Arterial-Interstate	114,543	55	State Highway Agency	Systemic	Roadway Departure	Improve roadway surface to reduce fixed object crashes
110473 - SCI US 23 11.43 Safety	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	\$18909	\$19099	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	19,696	35	State Highway Agency	Spot	Intersections	Intersection improvements to reduce intersection crashes
110427 - CUY/GEA US 422/322 02.42/04.05	Intersection traffic control	Modify traffic signal –other	1	Intersections	\$289440	\$301321	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	16,218	50	State Highway Agency	Spot	Intersections	Intersection improvements to reduce intersection crashes
87716 - MED IR 0071 06.06	Roadway	Pavement surface - other	3.88	Miles	\$235600	\$4565102.15	State and Local Funds	Urban	Principal Arterial-Interstate	53,258	70	State Highway Agency	Systemic	Roadway Departure	Resurfacing and bridge maintenance to reduce fixed object crashes
105034 - D03 SRTS Perkins Township Inf	Pedestrians and bicyclists	Install new crosswalk	0.738	Miles	\$25000	\$155441	State and Local Funds	Urban	Minor Collector	5,366	45	Town or Township Highway Agency	Spot	Pedestrians	Install sidewalk to reduce pedestrian crashes
109232 - MED SR 0003 15.05	Roadway	Pavement surface - other	2.79	Miles	\$4891441.46	\$4891441.46	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	20,941	55	State Highway Agency	Systemic	Roadway Departure	Pavement replacement and lane modifications to reduce fixed object crashes.

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110589 - TRU US 0062 07.47	Intersection traffic control	Intersection traffic control - other	1	Intersections	\$30000	\$75000	State and Local Funds	Urban	Principal Arterial-Other	10,649	55	State Highway Agency	Spot	Intersections	Intersection improvements to reduce intersection crashes
109838 - JAC SR 32 0.00	Roadway	Pavement surface – high friction surface	2	Locations	\$251320	\$2120999	State and Local Funds	Rural	Principal Arterial-Other	6,456	60	State Highway Agency	Spot	Roadway Departure	Surface treatment to reduce fixed object crashes
109973 - PIK US 23 11.11 Signal	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	\$176510	\$176510	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	21,746	60	State Highway Agency	Spot	Intersections	Intersection improvements to reduce intersection crashes
110545 - LUC Hill Ave NS	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$303000	\$432533	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Install warning devices to reduce train crashes
110515 - STW 2020 CEAO Safety Studies	Miscellaneous	Transportation safety planning	1	Study	\$675000	\$928899	HSIP (23 U.S.C. 148)	N/A	N/A	0		State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
110511 - MRG SR 60 11.720	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	\$178200	\$232043.94	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	7,713	25	State Highway Agency	Spot	Intersections	Intersection improvements to reduce intersection crashes
108798 - JEF CR 2 2.54	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	\$266520	\$266520	HSIP (23 U.S.C. 148)	Urban	Minor Collector	4,120		City or Municipal Highway Agency	Spot	Intersections	Intersection improvements signal upgrade to reduce intersection crashes
111056 - OTT Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	5.163	Miles	\$10696	\$10696	HSIP (23 U.S.C. 148)	Urban	Minor Collector	1,963	40	State Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
111062 - OTT Curve Sign Upgrade	Roadway signs and traffic control	Curve-related warning signs and flashers	6	Locations	\$2700	\$2700	HSIP (23 U.S.C. 148)	Urban	Minor Collector	2,501	40	State Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
111046 - LOR 2020 Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	10.12	Miles	\$16528	\$16528	HSIP (23 U.S.C. 148)	Rural	Major Collector	0		State Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes

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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
111034 - DAR 2020 Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	4	Locations	\$43840	\$43840	HSIP (23 U.S.C. 148)	Rural	Minor Collector	1,948		State Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
111045 - LOG 2020 Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	4	Locations	\$50000	\$50000	HSIP (23 U.S.C. 148)	Urban	Local Road or Street	522	50	State Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
111053 - MER 2020 Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	3	Locations	\$16000	\$16000	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	1,003	45	State Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
111058 - DAR 2020 Curve Sign Upgrade	Roadway signs and traffic control	Curve-related warning signs and flashers	8.63	Miles	\$7755	\$7755	HSIP (23 U.S.C. 148)	Rural	Major Collector	179		State Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
111033 - CLI 2020 Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	4	Locations	\$21800	\$21800	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	467	45	State Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
111031 - ATH 2020 Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	3	Locations	\$20000	\$20000	HSIP (23 U.S.C. 148)	Urban	Minor Collector	7,919	55	State Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
111055 - NOB 2020 Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	5.66	Miles	\$24000	\$24000	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0		State Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
111061 - MOE Curve Sign Upgrade	Roadway signs and traffic control	Curve-related warning signs and flashers	6.53	Miles	\$1375	\$1375	HSIP (23 U.S.C. 148)	Rural	Major Collector	470		State Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
110976 - CLA Spgfld, N.Burnett/Columbus	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$286743	\$286743	HSIP (23 U.S.C. 148)	Urban	Minor Collector	6,851	55	City or Municipal Highway Agency	Spot	Intersections	Install warning devices to reduce train crashes
110466 - BUT US 127 16.56	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	\$45700	\$54120	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	8,287	55	State Highway Agency	Spot	Intersections	Roundabout to reduce intersection crashes
111139 - FRA Gibbard Ave CUOH	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$187000	\$187000	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes
111148 - MRW TR 61 CSX	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$563443.66	\$572443.66	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes
111149 - MRW CR 151 Hunt Rd CSX	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$401000	\$410000	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes

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111146 - WAS Depot St CSX	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$381603.31	\$390603.31	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes
111157 - CUY/LAK GR FY2020 Safety	Roadside	Barrier- metal	34	Locations	\$541830	\$541830	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	41,331	45	State Highway Agency	Systemic	Roadway Departure	Create/Improve guard rails to reduce fixed object crashes
110989 - STW Preemption ORDC 2020	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$450000	\$500000	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes
111178 - HAN TR 25 Baker Rd CSX	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$124000	\$330000	State and Local Funds	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes
111177 - BUT TR 199 Stephenson Rd CSX	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$413075.17	\$419075.17	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes
111495 - MEG CR VAR PM FY2020	Roadway delineation	Longitudinal pavement markings - remarking	2.16	Miles	\$150000	\$150000	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0		County Highway Agency	Systemic	Roadway Departure	Improve roadway surface to reduce fixed object crashes
111534 - FRA CR 19 Park Road NS/CSX	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$818111.64	\$818111.64	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes
108494 - WAS TR 50 Westview Ave CSX	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$3889.35	\$352467.47	State and Local Funds	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes
111841 - CLI US 68 14.97	Intersection traffic control	Pavement markings	3	Intersections	\$114330.6	\$114330.6	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	8,447	35	City or Municipal Highway Agency	Spot	Intersections	Various intersection improvements to reduce intersection crashes
112035 - FRA-33-6.15 (at Hayden Run Rd)	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$504000	\$504000	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	20,878	50	State Highway Agency	Spot	Intersections	Add left turn lane to reduce intersection crashes
112222 - SAN US 20 20.80 roundabout	Intersection traffic control	Modify control – Modern Roundabout	1	Interchanges	\$135000	\$135000	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	15,702	60	State Highway Agency	Spot	Intersections	Roundabout to reduce intersection crashes

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111975 - SHE SR 274 Pike St Surface IORY	Railroad grade crossings	Crossing approach improvements	1	Intersections	\$79000	\$79000	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Railroad surface treatment to reduce train crashes
112558 - LUC IR 475 4.40 Intrchnng Feas St	Miscellaneous	Transportation safety planning	1	Study	\$270000	\$439328	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Interstate	80,199	65	State Highway Agency	Study	Data	Intersection study to reduce intersection crashes
112559 - WOO IR 75 26.70 Intrchnng Feas St	Miscellaneous	Transportation safety planning	1	Study	\$448114.5	\$497905	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Interstate	77,770	65	State Highway Agency	Study	Data	Intersection study to reduce intersection crashes
112452 - VIN SR 56 3.020	Intersection traffic control	Intersection flashers – sign-mounted or overhead	1	Intersections	\$174087.01	\$174087.01	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	2,111	55	State Highway Agency	Spot	Intersections	Upgrade intersection flashers to reduce intersection crashes
112704 - WYA CR 58C Surface CSX	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$112539	\$160000	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes
113034 - FRA Prairie 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)	N/A	N/A	0		State Highway Agency	Systemic	Lane Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
113314 - BUT Augspurgr Rd NS	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$75502	\$75502	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes
113398 - DAR Neave Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$14570	\$14570	HSIP (23 U.S.C. 148)	N/A	N/A	0		State Highway Agency	Systemic	Lane Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
113460 - DAR Harrison Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$14800	\$14800	HSIP (23 U.S.C. 148)	N/A	N/A	0		State Highway Agency	Systemic	Lane Departure	Township sign grant program to reduce roadway

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															departure and intersection crashes along roadway
113461 - ATB Orwell Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$10045	\$10045	HSIP (23 U.S.C. 148)	N/A	N/A	0		State Highway Agency	Systemic	Lane Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
113508 - CLI Washington Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$19520	\$19520	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	70	45	State Highway Agency	Systemic	Lane Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
113545 - ATB Windsor Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$13950	\$13950	Penalty Funds (23 U.S.C. 164)	Rural	Local Road or Street	0		State Highway Agency	Systemic	Lane Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
113569 - ATB Andover Twp Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$18160	\$18160	HSIP (23 U.S.C. 148)	N/A	N/A	0		State Highway Agency	Systemic	Lane Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
113570 - BEL Goshen Township Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$32195	\$32195	HSIP (23 U.S.C. 148)	N/A	N/A	0		State Highway Agency	Systemic	Lane Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
113571 - FAI Rushcreek	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$8745	\$8745	HSIP (23 U.S.C. 148)	N/A	N/A	0		State Highway Agency	Systemic	Lane Departure	Township sign grant program to reduce

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Township Sign Grant															roadway departure and intersection crashes along roadway
113573 - ALL Marion Township Sign Grant	Roadway signs and traffic control	Roadway signs (including post) - new or updated	1	Township	\$6201	\$6201	HSIP (23 U.S.C. 148)	N/A	N/A	0		State Highway Agency	Systemic	Lane Departure	Township sign grant program to reduce roadway departure and intersection crashes along roadway
113599 - ATB Main & W 48th St Signal NS	Railroad grade crossings	Active grade crossing equipment installation/upgrade	1	Intersections	\$52000	\$83677	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	8,729	25	Railroad	Spot	Intersections	Upgrade intersection signals to reduce intersection crashes
113619 - SFY21 Streetlight Purchase	Miscellaneous	Data collection	1	System	\$900000	\$1996000	State and Local Funds	N/A	N/A	0		State Highway Agency	Study	Data	Provide access to Streetlight data to support crash analysis and safety studies.
113657 - STW OH1 2020	Miscellaneous	Data collection	1	System	\$141980	\$141980	HSIP (23 U.S.C. 148)	N/A	N/A	0		State Highway Agency	Study	Data	Provide crash data to support crash analysis and safety studies.
112968 - FRA-161-18.63 Cable Barrier	Roadside	Barrier – cable	4.51	Miles	\$24231	\$24231	HSIP (23 U.S.C. 148)	N/A	N/A	0		City or Municipal Highway Agency	Systemic	Roadway Departure	Install cable barrier to reduce fixed object crashes
113447 - MOT-Woodman-Burkhardt Signal	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	\$34850	\$34850	HSIP (23 U.S.C. 148)	N/A	N/A	0		City or Municipal Highway Agency	Spot	Intersections	Upgrade intersection signals to reduce intersection crashes
113675 - HAM US-127 13.78	Intersection traffic control	Modify traffic signal –other	1	Intersections	\$70200	\$70200	HSIP (23 U.S.C. 148)	N/A	N/A	0		State Highway Agency	Systemic	Intersections	Install advanced signal detection throughout

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															corridor to reduce rear end crashes
100348 - MOT W AIRWAY RD	Pedestrians and bicyclists	Pedestrians and bicyclists – other	0.9	Miles	\$709168.6	\$2363259.7	State and Local Funds	Urban	Principal Arterial-Other	17,045	35	City or Municipal Highway Agency	Spot	Intersections	Widen shoulders to reduce rear end and bicycle crashes
100471 - STA SR 0241 09.71	Intersection geometry	Add/modify auxiliary lanes	4	Intersections	\$877679.87	\$877679.87	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	13,466	40	City or Municipal Highway Agency	Spot	Intersections	Construct two way left turn lane to reduce rear end crashes
100907 - CLE WAR Culverts FY20 (A)	Shoulder treatments	Widen shoulder – paved or other (includes add shoulder)	0.15	Miles	\$125937	\$1695597	State and Local Funds	Rural	Minor Arterial	9,001	55	State Highway Agency	Spot	Roadway Departure	Widen shoulders to reduce fixed object crashes
100927 - FRA SR 317 12.96 (Hamilton)	Pedestrians and bicyclists	Pedestrians and bicyclists – other	1	Intersections	\$9953.19	\$9953.19	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	30,313	50	City or Municipal Highway Agency	Spot	Pedestrians	Improve pedestrian facilities to reduce pedestrian crashes
101097 - FRA US 33 8.780	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$145149.92	\$152601.43	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	22,087	45	State Highway Agency	Spot	Intersections	Construct left turn lanes to reduce left turn, angle and rear end crashes
101232 - FUL US 20A 12.49 Resurfacing	Roadside	Barrier end treatments (crash cushions, terminals)	4	Numbers	\$3199.25	\$3966403.67	State and Local Funds	Urban	Minor Arterial	13,948	55	State Highway Agency	Systemic	Roadway Departure	Upgrade roadside hardware to reduce fixed object crashes
101359 - LOR US 0020 19.40	Roadway	Roadway narrowing (road diet, roadway reconfiguration)	1	Lanes	\$55088.57	\$1335554.34	State and Local Funds	Urban	Principal Arterial-Other	31,334	50	State Highway Agency	Spot	Bicyclists	Perform a road diet to reduce bicycle crashes
101402 - SUM 76/77 Central Interchange	Interchange design	Interchange design - other	7	Ramps	\$1490000	\$1599195.94	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Interstate	131,637	60	State Highway Agency	Spot	Intersections	Improve interchange configuration to reduce rear end and

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															sideswipe crashes
101787 - FRA CR 15 (Livingston) at James	Intersection traffic control	Modify traffic signal –other	1	Intersections	\$348627.2	\$358159.1	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	22,755	0	City or Municipal Highway Agency	Spot	Intersections	Upgrade existing signal hardware to reduce rear end crashes
101808 - ADA SR 73 10.43	Shoulder treatments	Widen shoulder – paved or other (includes add shoulder)	2.4	Miles	\$23266.35	\$52311.59	State and Local Funds	Rural	Minor Collector	1,817	55	State Highway Agency	Spot	Roadway Departure	Widen shoulders to reduce fixed object crashes
101977 - POR SR 0014 18.06	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$80261.86	\$91816.57	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	13,049	45	State Highway Agency	Spot	Intersections	Construct left turn lanes to reduce left turn, angle and rear end crashes
102028 - MED SR 0018 15.99	Intersection traffic control	Modify traffic signal – modernization/replacement	6	Intersections	\$612000	\$1046344	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	26,917	55	State Highway Agency	Spot	Intersections	Upgrade existing signal hardware to reduce rear end crashes
102054 - CUY 17/94/480 10.78/10.05/13.96	Intersection geometry	Add/modify auxiliary lanes	2	Intersections	\$305373.64	\$2268506.53	State and Local Funds	Urban	Principal Arterial-Interstate	144,212	60	State Highway Agency	Spot	Intersections	Construct right turn lanes to reduce rear end crashes
102059 - BUT SR 73 13.05	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	\$3122787.5	\$3559614.77	Penalty Funds (23 U.S.C. 164)	Rural	Minor Arterial	6,363	55	State Highway Agency	Spot	Intersections	Construct Roundabout to reduce angle crashes
102097 - DEL SR 003 07.21	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$17442.27	\$17442.27	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	12,072	55	County Highway Agency	Spot	Intersections	Construct left turn lanes to reduce left turn, angle and rear end crashes
102108 - ASD US 0030 00.11	Intersection geometry	Intersection geometry - other	1	Intersections	\$190000	\$215079	State and Local Funds	Urban	Principal Arterial-Other	16,195	60	State Highway Agency	Spot	Intersections	Construct restricted crossing u turns to reduce angle crashes
102204 - POR SR 0044 07.71	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$228475.28	\$745413.93	State and Local Funds	Urban	Minor Arterial	15,042	40	State Highway Agency	Spot	Intersections	Construct right turn lanes to reduce rear end crashes

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102520 - LOR IR 0090 20.55	Intersection geometry	Add/modify auxiliary lanes	2	Intersections	\$139112.96	\$139112.96	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Interstate	82,565	65	State Highway Agency	Spot	Intersections	Construct left turn lanes to reduce rear end crashes and queuing onto the freeway
103108 - COL US 30 18.220	Intersection traffic control	Modify traffic signal – modernization/replacement	3	Intersections	\$385280	\$385280	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	9,404	40	State Highway Agency	Spot	Intersections	Upgrade existing signal hardware to reduce angle crashes
103120 - MED SR 0003 14.95	Intersection traffic control	Modify traffic signal –other	1	Intersections	\$43000	\$43000	State and Local Funds	Urban	Minor Arterial	16,846	55	State Highway Agency	Spot	Intersections	Upgrade existing signal hardware to reduce rear end crashes
103592 - HOL SR 39 24.96	Intersection geometry	Intersection realignment	2	Intersections	\$1389870	\$2070401.59	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	10,563	55	State Highway Agency	Spot	Intersections	Realignment of intersection approaches to reduce angle and left turn crashes
103626 - DEL US 36 11.03	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$1690000	\$1694313	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
103708 - SCI SR 140 2.16 Safety	Roadside	Removal of fixed objects (trees, poles, etc.)	0.04	Miles	\$119594	\$193529.42	Penalty Funds (23 U.S.C. 164)	Urban	Minor Collector	6,859	55	State Highway Agency	Spot	Roadway Departure	Removal of fixed objects to reduce fixed object crashes
103718 - STA US 0030 32.12	Intersection geometry	Intersection geometry - other	1	Intersections	\$909054	\$923053.3	HSIP (23 U.S.C. 148)	Rural	Principal Arterial-Other	6,563	25	State Highway Agency	Spot	Intersections	Realignment of intersection approaches to reduce angle and left turn crashes
106732 - CUY East 116th/Harvard Signal	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	\$214080	\$214080	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	5,813		Railroad	Spot	Intersections	Intersection upgrade to reduce intersection crashes

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106140 - SEN Tiffin Consolidation CSX	Railroad grade crossings	Active grade crossing equipment installation/upgrade	7	Locations	\$1727358.66	\$1727358.66	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Modify crossing to reduce train crashes
106419 - D03 GR FY2019 NHS	Roadside	Barrier end treatments (crash cushions, terminals)	2.926	Miles	\$600	\$237655.46	State and Local Funds	Urban	Principal Arterial-Other	33,768	65	State Highway Agency	Systemic	Roadway Departure	Replacement of Type A guardrail end treatments to reduce fixed object crashes
106422 - CUY W. Grace St NS/WLE/CCRL	Railroad grade crossings	Railroad grade crossings - other	1	Intersections	\$416460.68	\$416460.68	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Improve lighting to train object crashes
106388 - LAK Erie Street CSX	Lighting	Lighting - other	1	Interchanges	\$67012	\$67012	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Roadway Departure	Improve lighting to reduce fixed object crashes
106570 - KNO Parrot St. CUOH	Lighting	Lighting - other	1	Interchanges	\$28442.69	\$52768.23	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Roadway Departure	Improve lighting to reduce fixed object crashes
105669 - MUS US 22 09.74/10.00 OSRR	Railroad grade crossings	Crossing warning signs and pavement marking improvements	1	Intersections	\$148259.73	\$655653.59	State and Local Funds	Urban	Principal Arterial-Other	16,190	55	Railroad	Spot	Intersections	Upgrade train signal to reduce train crashes
105979 - WOO-GR FY2019 County Grail repl	Roadside	Barrier- metal	1.01	Miles	\$247355	\$247355	HSIP (23 U.S.C. 148)	Rural	Major Collector	402	45	County Highway Agency	Systemic	Roadway Departure	Create/Improve guard rails to reduce fixed object crashes
106258 - RIC SR 0061 06.38 (Gamble St)	Pedestrians and bicyclists	Pedestrian signal	1	Intersections	\$229418.3	\$229418.3	Penalty Funds (23 U.S.C. 164)	Urban	Minor Collector	5,756	35	City or Municipal Highway Agency	Spot	Pedestrians	Upgrade pedestrian crossing signals to reduce pedestrian crashes
106672 - ERI AT Sandusky Inf	Pedestrians and bicyclists	Pedestrian signal	1	Intersections	\$125000	\$125000	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	8,882	25	City or Municipal Highway Agency	Spot	Pedestrians	Upgrade pedestrian crossing signals to reduce pedestrian crashes

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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
106287 - CLA SR 72 6.83	Miscellaneous	Transportation safety planning	1	Study	\$245000	\$260049.24	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	15,300	35	City or Municipal Highway Agency	Study	Data	Safety study to understand how to reduce intersection and pedestrian crashes
104685 - PIK CR59/VAR PM FY19	Roadway delineation	Longitudinal pavement markings - remarking	7.57	Miles	\$10100	\$77735.2	State and Local Funds	Urban	Minor Collector	2,424	45	County Highway Agency	Systemic	Roadway Departure	Install pavement markings to reduce fixed object crashes
107025 - ALL S. Greenlawn Rd CFE	Railroad grade crossings	Active grade crossing equipment installation/upgrade	1	Intersections	\$153000	\$153000	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Update RR crossing sign to reduce train crashes
107038 - D08 Safety Studies 2016 SA	Miscellaneous	Transportation safety planning	2	Study	\$21.78	\$21.78	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	16,594	55	State Highway Agency	Study	Data	Safety study
107044 - FAY S. Elm Street IORY	Railroad grade crossings	Active grade crossing equipment installation/upgrade	1	Intersections	\$215782	\$311517	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Improve RR signal to reduce train crashes
107160 - MOT SR 48 5.39	Intersection traffic control	Modify traffic signal – add backplates with retroreflective borders	1	Intersections	\$2000	\$37576.5	State and Local Funds	Urban	Principal Arterial-Other	26,286	35	State Highway Agency	Spot	Intersections	Intersection improvements to reduce intersection crashes
106852 - MAD SR 38 Main St. NS	Railroad grade crossings	Active grade crossing equipment installation/upgrade	1	Intersections	\$5005.54	\$5005.54	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Update RR crossing sign to reduce train crashes
107285 - LIC Thornwood Dr CUOH	Railroad grade crossings	Active grade crossing equipment installation/upgrade	1	Intersections	\$183000	\$183000	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Update RR crossing sign to reduce train crashes
106855 - STA SR 225 Union Ave NS	Railroad grade crossings	Active grade crossing equipment installation/upgrade	1	Intersections	\$156949	\$156949	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Update RR crossing sign to reduce train crashes
106927 - BRO US 68 44.48 Safety	Intersection traffic control	Modify traffic signal –other	1	Intersections	\$20483.24	\$20483.24	State and Local Funds	Rural	Minor Arterial	3,007	55	State Highway Agency	Spot	Intersections	Intersection improvements to reduce intersection crashes

2021 Ohio Highway Safety Improvement Program

PROJECT NAME	IMPROVEMENT CATEGORY	SUBCATEGORY	OUTPUTS	OUTPUT TYPE	HSIP PROJECT COST(\$)	TOTAL PROJECT COST(\$)	FUNDING CATEGORY	LAND USE/AREA TYPE	FUNCTIONAL CLASSIFICATION	AADT	SPEED	OWNERSHIP	METHOD FOR SITE SELECTION	SHSP EMPHASIS AREA	SHSP STRATEGY
107118 - DEL US 23 11.43	Roadway	Pavement surface - other	1.25	Miles	\$15483.47	\$15483.47	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other Freeways & Expressways	37,650	55	City or Municipal Highway Agency	Systemic	Roadway Departure	Resurfacing roadway to reduce fixed object crashes
107578 - MED SR 0057 01.48	Intersection traffic control	Modify control – Modern Roundabout	1	Intersections	\$83958	\$251543.7	State and Local Funds	Urban	Minor Arterial	12,272	55	City or Municipal Highway Agency	Spot	Intersections	Roundabout to reduce intersection crashes
107273 - MAH CR 0109 06.62 (Raccoon Rd)	Intersection traffic control	Modify traffic signal –other	1	Intersections	\$224480.95	\$224480.95	HSIP (23 U.S.C. 148)	Urban	Minor Collector	10,907	35	County Highway Agency	Spot	Intersections	Intersection improvements to reduce intersection crashes
107606 - BUT Front St CSX	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$232272	\$232272	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes
108474 - STW CEAO Safety Studies FY 2019	Miscellaneous	Transportation safety planning	1	Study	\$116057.06	\$144039.21	HSIP (23 U.S.C. 148)	N/A	N/A	0		State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
108607 - VAN TR 199 Bockey Rd CFE	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$103000	\$200000	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes
108511 - CRA SR 602 Kibler St WE	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$218712.94	\$218712.94	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes
106914 - HEN PM FY2019	Roadway delineation	Longitudinal pavement markings - remarking	4.098	Miles	\$118437.8	\$118437.8	HSIP (23 U.S.C. 148)	Rural	Minor Collector	1,328	55	County Highway Agency	Systemic	Roadway Departure	Improve roadway surface to reduce fixed object crashes
107672 - STA Market St S NS	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$127819.15	\$127819.15	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes
108605 - WAY CR 504 WE	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$210348.32	\$310860.32	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes
108516 - ATH CR 13 Carpenter KNWA	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$178529	\$178529	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes
108518 - TUS TR 424 Mt. Pleasant RJCL	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$174482.72	\$174482.72	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes

2021 Ohio Highway Safety Improvement Program

PROJECT NAME	IMPROVEMENT CATEGORY	SUBCATEGORY	OUTPUTS	OUTPUT TYPE	HSIP PROJECT COST(\$)	TOTAL PROJECT COST(\$)	FUNDING CATEGORY	LAND USE/AREA TYPE	FUNCTIONAL CLASSIFICATION	AADT	SPEED	OWNERSHIP	METHOD FOR SITE SELECTION	SHSP EMPHASIS AREA	SHSP STRATEGY
108748 - LOR CR 0204 00.56 (Lake Ave)	Intersection traffic control	Modify traffic signal – modernization/replacement	1	Intersections	\$788534.44	\$836532.26	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	0	35	City or Municipal Highway Agency	Spot	Intersections	Intersection traffic control upgrades to reduce intersection crashes
108084 - SUM Portage Trail Ext.	Intersection geometry	Add/modify auxiliary lanes	0.78	Miles	\$485000	\$655144.2	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	19,880	35	City or Municipal Highway Agency	Spot	Intersections	Add TWLTL to reduce intersection crashes
105768 - FRA SR16 06.87 (at S-Hamilton)	Intersection traffic control	Modify traffic signal –other	1	Intersections	\$675000	\$1546594.1	State and Local Funds	Urban	Principal Arterial-Other	29,047	35	City or Municipal Highway Agency	Spot	Intersections	Intersection upgrades to reduce intersection crashes
107129 - HAM US 127 6.93	Roadway	Rumble strips – center	0.85	Miles	\$1033000	\$1033000	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	22,870	35	City or Municipal Highway Agency	Systemic	Lane Departure	Center line rumble strip to reduce head on crashes
108270 - BUT SR 4 3.56	Intersection traffic control	Modify traffic signal –other	1	Intersections	\$412020.9	\$580233.6	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	37,820	35	City or Municipal Highway Agency	Spot	Intersections	Upgrade signals and signal timing to reduce intersection crashes.
107544 - PIK Market Street NS	Intersection traffic control	Intersection signing –other	1	Intersections	\$9750	\$155544.75	State and Local Funds	N/A	N/A	0		Railroad	Spot	Intersections	Intersection flashers to reduce intersection crashes
107330 - SAN GR FY2020	Roadside	Barrier- metal	0.22	Miles	\$260642	\$260642	HSIP (23 U.S.C. 148)	Urban	Minor Collector	3,102		County Highway Agency	Systemic	Roadway Departure	Create/Improve guard rails to reduce fixed object crashes
108976 - WIL CR-Var PM FY2020	Roadway delineation	Longitudinal pavement markings - remarking	37.633	Miles	\$100000	\$105000	HSIP (23 U.S.C. 148)	Rural	Major Collector	1,079	45	County Highway Agency	Systemic	Roadway Departure	Improve roadway surface to reduce fixed object crashes
108977 - WOO CR-Var PM FY2020	Roadway delineation	Longitudinal pavement markings - remarking	28.862	Miles	\$53888.03	\$53888.03	HSIP (23 U.S.C. 148)	Urban	Minor Collector	2,229	45	County Highway Agency	Systemic	Roadway Departure	Improve roadway surface to reduce fixed object crashes

2021 Ohio Highway Safety Improvement Program

PROJECT NAME	IMPROVEMENT CATEGORY	SUBCATEGORY	OUTPUTS	OUTPUT TYPE	HSIP PROJECT COST(\$)	TOTAL PROJECT COST(\$)	FUNDING CATEGORY	LAND USE/AREA TYPE	FUNCTIONAL CLASSIFICATION	AADT	SPEED	OWNERSHIP	METHOD FOR SITE SELECTION	SHSP EMPHASIS AREA	SHSP STRATEGY
109114 - MOT SR 49 8.47	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$296053.87	\$328948.75	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	10,592	50	City or Municipal Highway Agency	Spot	Intersections	Add left turn lane to reduce intersection crashes
105396 - STA Pavement Marking 2020	Roadway delineation	Longitudinal pavement markings - remarking	39	Locations	\$150000	\$150000	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	29,663	45	County Highway Agency	Systemic	Roadway Departure	Improve roadway surface to reduce fixed object crashes
109086 - WAR SR 48 Signal Retiming	Intersection traffic control	Modify traffic signal timing – general retiming	6	Intersections	\$357.14	\$28492	State and Local Funds	Urban	Principal Arterial-Other	18,056	55	State Highway Agency	Spot	Intersections	Studying and retiming intersection to reduce intersection crashes
109176 - NOB - 2019 Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	5.75	Miles	\$15562.16	\$15562.16	HSIP (23 U.S.C. 148)	Urban	Local Road or Street	0		County Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
109162 - LUC - 2019 Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	5	Locations	\$50000	\$50000	HSIP (23 U.S.C. 148)	Urban	Minor Collector	2,384	45	County Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
109160 - LIC - 2019 Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	7	Locations	\$3600	\$3600	HSIP (23 U.S.C. 148)	Urban	Minor Collector	2,784		County Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
109180 - PUT - 2019 Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	3	Locations	\$26400	\$26400	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	45	County Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
109181 - ROS - 2019 Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	3.19	Miles	\$35200	\$35200	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	2,969		County Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
109184 - WAS - 2019 Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	6.962	Miles	\$30550.78	\$30550.78	HSIP (23 U.S.C. 148)	Rural	Minor Arterial	3,860	55	County Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
109168 - FAI CR 33A 03.26	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$346744.36	\$346744.36	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	12,072	50	County Highway Agency	Spot	Intersections	Add right turn lane to reduce intersection crashes
107377 - COL VAR GR Phase 3	Roadside	Barrier- metal	8.6	Miles	\$282282	\$300000	HSIP (23 U.S.C. 148)	Urban	Minor Collector	2,979		County Highway Agency	Systemic	Roadway Departure	Create/Improve guard rails to reduce fixed object crashes

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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
109125 - LIC - 2019 Curve Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	3.05	Miles	\$10934.92	\$10934.92	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	178		County Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
109127 - PUT - 2019 Curve Sign Upgrade	Roadway signs and traffic control	Roadway signs (including post) - new or updated	5.771	Miles	\$1457.74	\$1457.74	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	0	45	County Highway Agency	Systemic	Roadway Departure	Install signage to reduce fixed object crashes
109051 - LOR Safety Study	Miscellaneous	Transportation safety planning	1	Study	\$2000	\$54141.98	State and Local Funds	Urban	Principal Arterial-Other	25,347	65	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
109318 - FRA Reynoldsburg SS - 2018	Miscellaneous	Transportation safety planning	1	Study	\$54102.6	\$60089.47	Penalty Funds (23 U.S.C. 164)	Urban	Principal Arterial-Other	26,058	40	State Highway Agency	Study	Data	Safety study to understand how to reduce crashes
109424 - COL CR 410 2.890	Miscellaneous	Transportation safety planning	1	Study	\$28868	\$28868	Penalty Funds (23 U.S.C. 164)	Urban	Minor Collector	0		County Highway Agency	Study	Data	Safety study to understand how to reduce crashes
109442 - HAN TR 212 NS	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$150000	\$321248	State and Local Funds	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes
109596 - LUC SR 22.51 Navr & Coy Int.	Intersection geometry	Add/modify auxiliary lanes	1	Intersections	\$150476	\$1251569	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	26,521	40	City or Municipal Highway Agency	Spot	Intersections	Add right turn lane to reduce intersection crashes
109385 - MAR Main St CSX	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$244153.09	\$296709	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes
109476 - JEF Penn St NS	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$230010	\$277010	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes
107076 - PIK CR4/VAR PM FY20	Roadway delineation	Longitudinal pavement markings - remarking	38.67	Miles	\$52780	\$52780	HSIP (23 U.S.C. 148)	Urban	Minor Collector	1,400		County Highway Agency	Systemic	Roadway Departure	Improve roadway surface to reduce fixed object crashes
109049 - WAR SR 63 IORY	Railroad grade crossings	Active grade crossing equipment installation/upgrade	1	Intersections	\$257535.56	\$324330.2	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	34,075	45	Railroad	Spot	Intersections	Upgrade intersection signals to reduce train crashes

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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
109088 - CLE-28 Signal Retiming	Intersection traffic control	Modify traffic signal timing – general retiming	7	Intersections	\$34174	\$34174	HSIP (23 U.S.C. 148)	Urban	Minor Arterial	36,305	45	State Highway Agency	Systemic	Intersections	Studying and retiming intersection to reduce intersection crashes
109609 - FRA-40/16-15.76/3.57 Signl Study	Intersection traffic control	Modify traffic signal timing – general retiming	7	Intersections	\$117798	\$117798	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	25,012	50	State Highway Agency	Systemic	Intersections	Studying and retiming intersection to reduce intersection crashes
107431 - MER CR 10 7.26 (Watkins Road)	Roadway	Roadway widening - add lane(s) along segment	1.082	Miles	\$3802.93	\$8274.49	HSIP (23 U.S.C. 148)	Rural	Local Road or Street	269	45	County Highway Agency	Systemic	Roadway Departure	Widening the roadway to reduce fixed object crashes
109111 - FRA-23-22.75 Signing	Roadway signs and traffic control	Sign sheeting - upgrade or replacement	3	Locations	\$710310	\$710310	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	83,281	45	State Highway Agency	Spot	Roadway Departure	Upgrade signage to reduce fixed object crashes
109942 - HAM North Bend Rd Signal Retime	Intersection traffic control	Modify traffic signal timing – general retiming	7	Intersections	\$37634	\$37634	HSIP (23 U.S.C. 148)	Urban	Principal Arterial-Other	10,077	35	State Highway Agency	Systemic	Intersections	Studying and retiming intersection to reduce intersection crashes
109849 - MIA Franklin St. CSX	Railroad grade crossings	Railroad grade crossings - other	1	Locations	\$257447.98	\$304215.14	HSIP (23 U.S.C. 148)	N/A	N/A	0		Railroad	Spot	Intersections	Install flashing lights to reduce train crashes

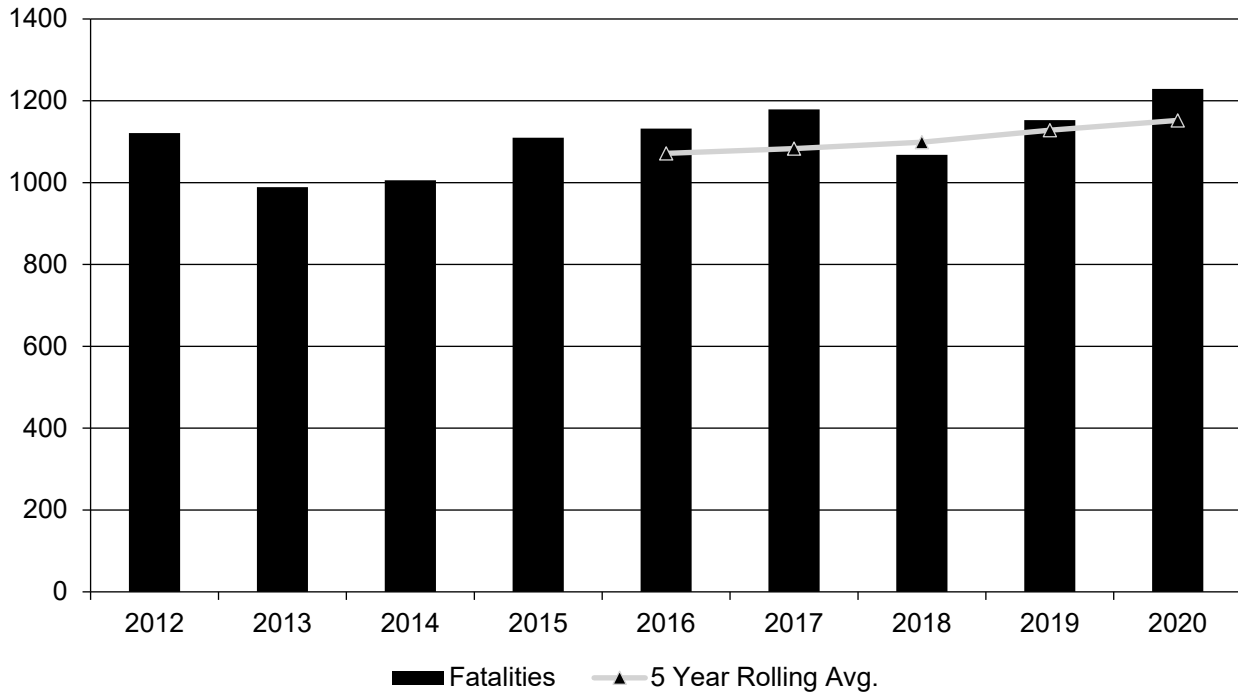
Safety Performance

General Highway Safety Trends

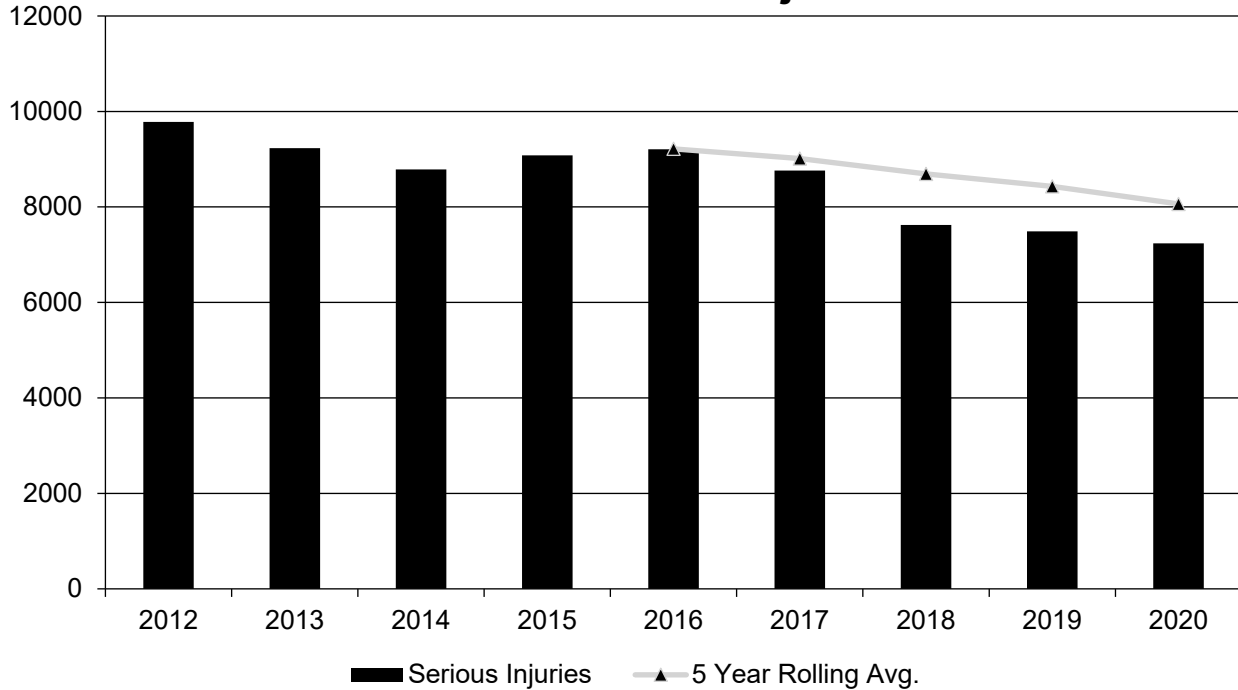
Present data showing the general highway safety trends in the State for the past five years.

PERFORMANCE MEASURES	2012	2013	2014	2015	2016	2017	2018	2019	2020
Fatalities	1,121	989	1,006	1,110	1,132	1,179	1,068	1,153	1,229
Serious Injuries	9,780	9,231	8,785	9,079	9,207	8,763	7,623	7,487	7,237
Fatality rate (per HMVMT)	0.990	0.880	0.890	0.980	0.950	0.990	0.930	1.010	1.200
Serious injury rate (per HMVMT)	8.680	8.190	7.790	7.990	7.760	7.330	6.660	6.530	7.040
Number non-motorized fatalities	131	107	102	143	159	163	155	153	182
Number of non-serious motorized injuries	773	751	682	700	725	726	675	635	625

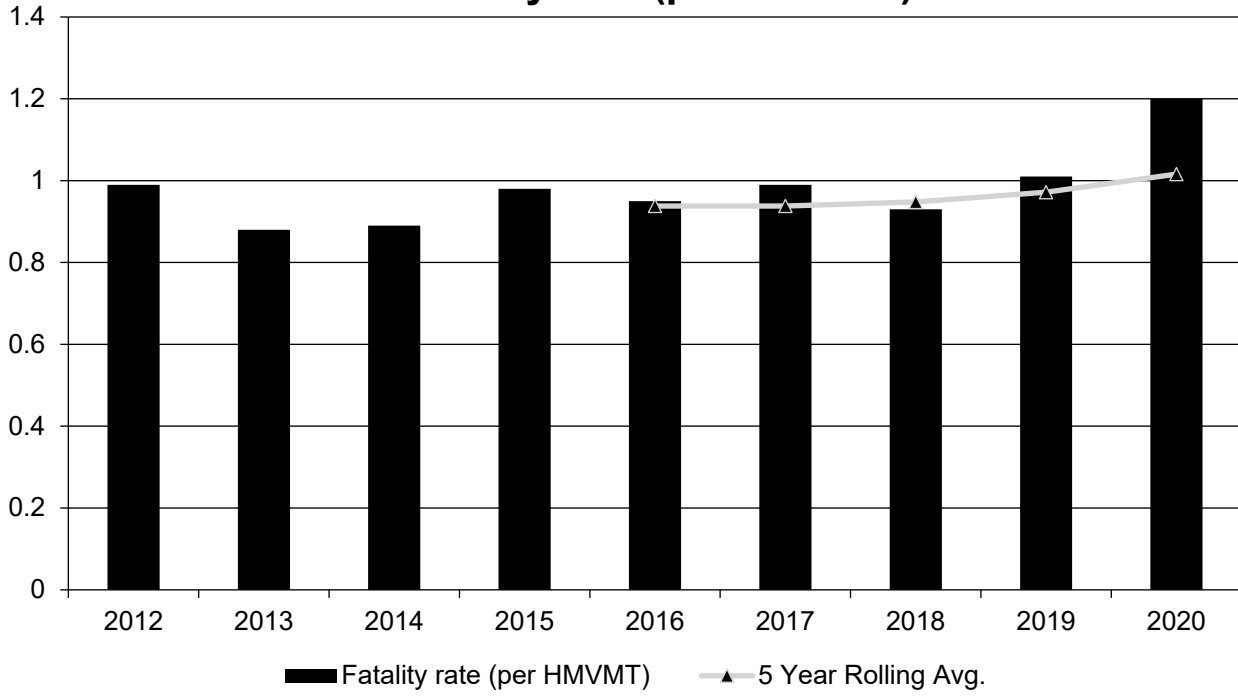
Annual Fatalities



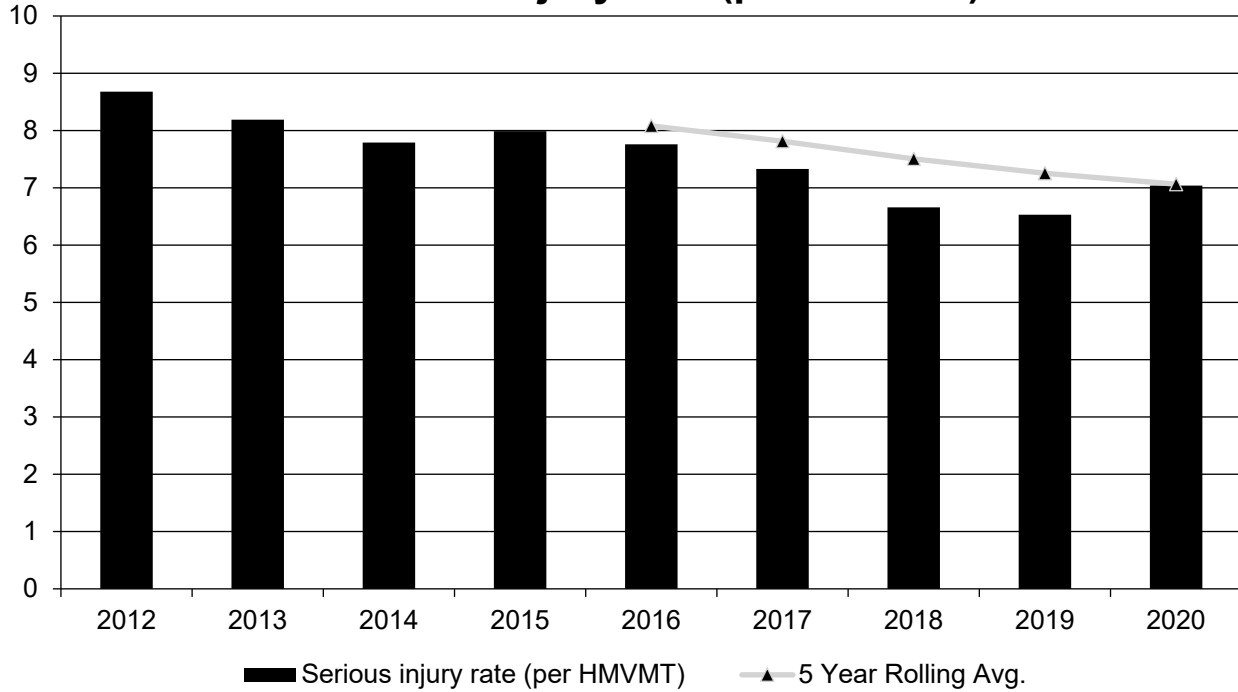
Annual Serious Injuries



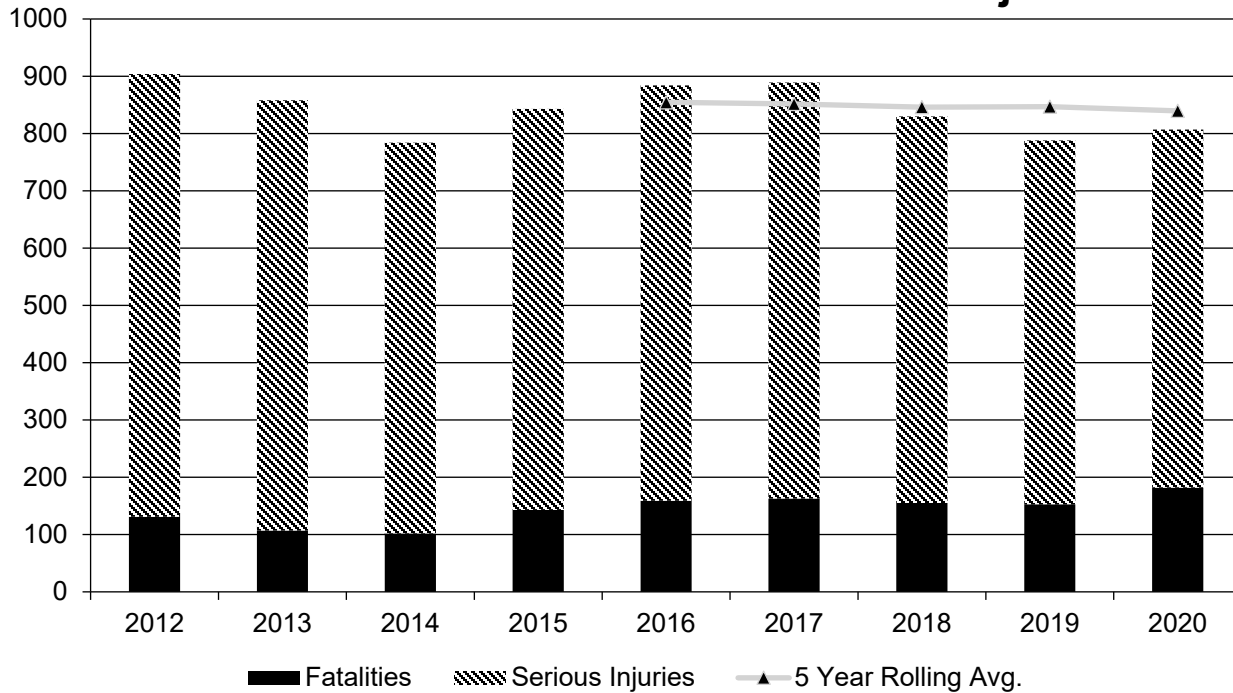
Fatality rate (per HMVMT)



Serious injury rate (per HMVMT)



Non Motorized Fatalities and Serious Injuries



Describe fatality data source.

FARS

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

Year 2020

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	29	89	0.4	1.21
Rural Principal Arterial (RPA) - Other Freeways and Expressways	13	38	0.73	2.14
Rural Principal Arterial (RPA) - Other	63	200	1.56	4.95
Rural Minor Arterial	67	364	1.75	9.5
Rural Minor Collector	39	239	2.48	15.22
Rural Major Collector	150	776	2.1	10.87

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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	103	563	1.91	10.42
Urban Principal Arterial (UPA) - Interstate	112	501	0.54	2.4
Urban Principal Arterial (UPA) - Other Freeways and Expressways	30	148	0.53	2.62
Urban Principal Arterial (UPA) - Other	171	1,237	1.39	10.06
Urban Minor Arterial	190	1,314	1.52	10.5
Urban Minor Collector	10	44	1.99	8.75
Urban Major Collector	122	846	1.39	9.67
Urban Local Road or Street	87	700	0.78	6.28

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Year 2020

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	507	2,316		
County Highway Agency	206	1,109		
Town or Township Highway Agency	60	421		
City or Municipal Highway Agency	423	3,233		
State Park, Forest, or Reservation Agency				
Local Park, Forest or Reservation Agency				
Other State Agency				
Other Local Agency				
Private (Other than Railroad)				
Railroad				
State Toll Authority	11	27		
Local Toll Authority				
Other Public Instrumentality (e.g. Airport, School, University)				
Indian Tribe Nation				

Safety Performance Targets

Safety Performance Targets

Calendar Year 2022 Targets *

Number of Fatalities:1106.0

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

See additional comments.

Number of Serious Injuries:7744.0

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

See additional comments.

Fatality Rate:0.970

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

See additional comments.

Serious Injury Rate:6.780

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

See additional comments.

Total Number of Non-Motorized Fatalities and Serious Injuries:808.0

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 is a 2% reduction from the 2016-2020 baseline. The targets were coordinated with the NHTSA Highway Safety Plan prepared by the Ohio Department of Public Safety.

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 2020 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	1055.0	1152.2

2021 Ohio Highway Safety Improvement Program

Number of Serious Injuries	8348.0	8063.4
Fatality Rate	0.910	1.016
Serious Injury Rate	7.210	7.064
Non-Motorized Fatalities and Serious Injuries	816.0	839.6

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

Number of Fatalities

2020 Target: 1,055.0

2020 Actual: 1,152.2

State did not meet target. While there was a decrease in VMT in 2020, the number of fatalities increased.

Number of Serious Injuries

2020 Target: 8,348.0

2020 Actual: 8,063.4

State met target.

Fatality Rate

2020 Target: 0.910

2020 Actual: 1.016

State did not meet target. This is due to the increase in fatalities and although VMT has increased, the rates at which they have increased has been less than the fatalities.

Serious Injury Rate

2020 Target: 7.21

2020 Actual: 7.064

State met target.

Number of non-motorized fatalities and serious injuries

2020 Target: 816

2020 Actual: 839.6

State did not meet target, but made significant progress.

Applicability of Special Rules

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	2014	2015	2016	2017	2018	2019	2020
Number of Older Driver and Pedestrian Fatalities	154	177	166	178	158	181	187
Number of Older Driver and Pedestrian Serious Injuries	796	790	861	821	772	711	652

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 2020, Ohio had 1,229 traffic deaths, representing a 6.4% increase and 7,237 serious injuries, representing a 3.5% decrease respectively compared to 2019. 2018 represented the first year of declining fatalities in since 2013 when Ohio had its lowest number of fatalities. This was also reflected in the trend for pedestrian fatalities. Ohio saw its first year of declining pedestrian fatalities since 2013.

Based on the project evaluations in 2016 our estimated safety benefits are \$114 Million with a cost of \$101 Million. The ratio of the safety benefits and project cost equates to a benefit-cost ratio of 1.13, 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

Effectiveness of Groupings or Similar Types of Improvements

Present and describe trends in SHSP emphasis area performance measures.

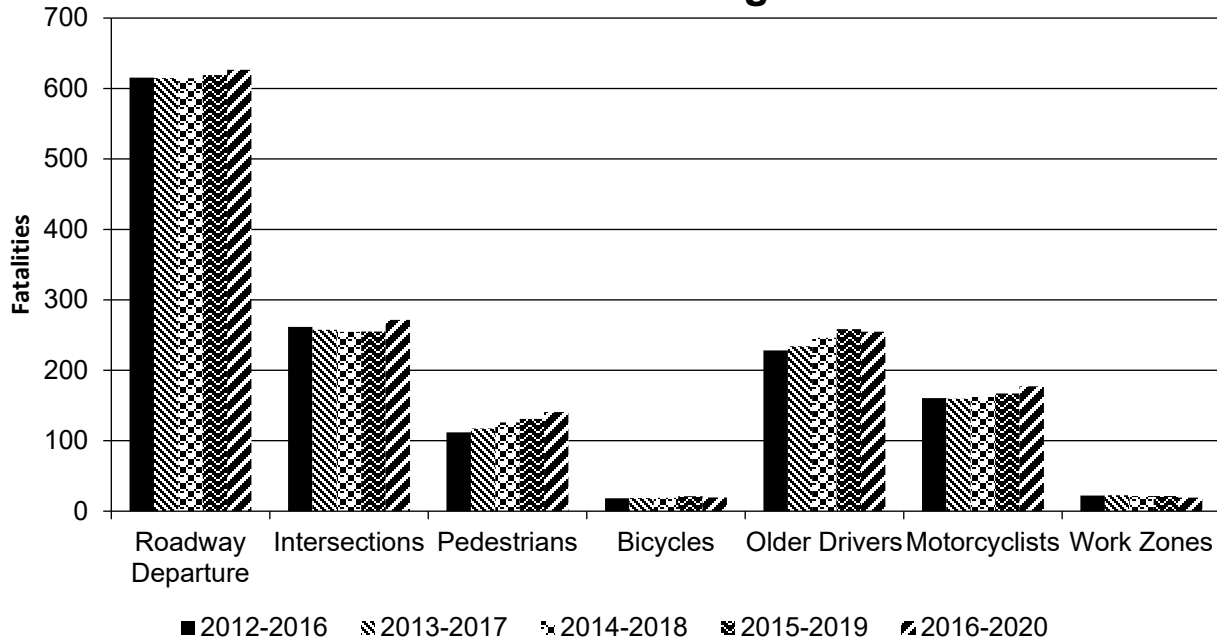
Year 2020

SHSP Emphasis Area	Targeted Crash Type	Number of Fatalities (5-yr avg)	Number of Serious Injuries (5-yr avg)	Fatality Rate (per HMVMT) (5-yr avg)	Serious Injury Rate (per HMVMT) (5-yr avg)
Roadway Departure		626.6	3,371.6	0.55	2.95
Intersections		271.6	3,308.8	0.26	2.9

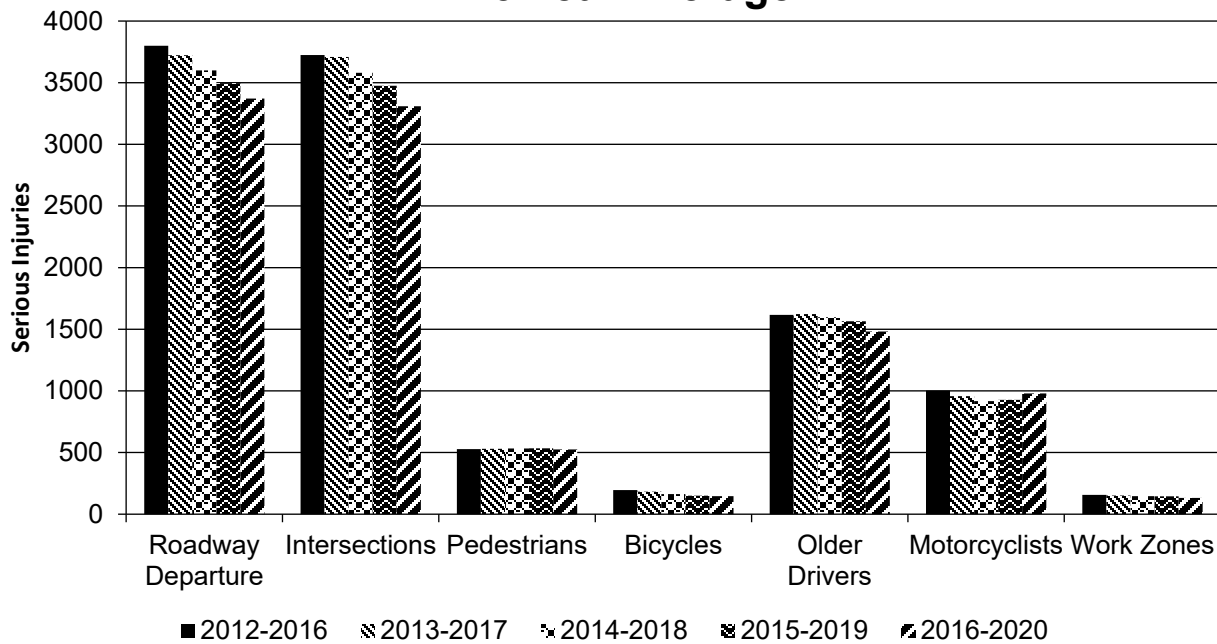
2021 Ohio Highway Safety Improvement Program

SHSP Emphasis Area	Targeted Crash Type	Number of Fatalities (5-yr avg)	Number of Serious Injuries (5-yr avg)	Fatality Rate (per HMVMT) (5-yr avg)	Serious Injury Rate (per HMVMT) (5-yr avg)
Pedestrians		140.8	525.4	0.12	0.46
Bicycles		19.4	146.2	0.02	0.13
Older Drivers		254.8	1,482.2	0.22	1.3
Motorcyclists		177.4	979	0.16	0.86
Work Zones		19.2	132.4	0.02	0.12

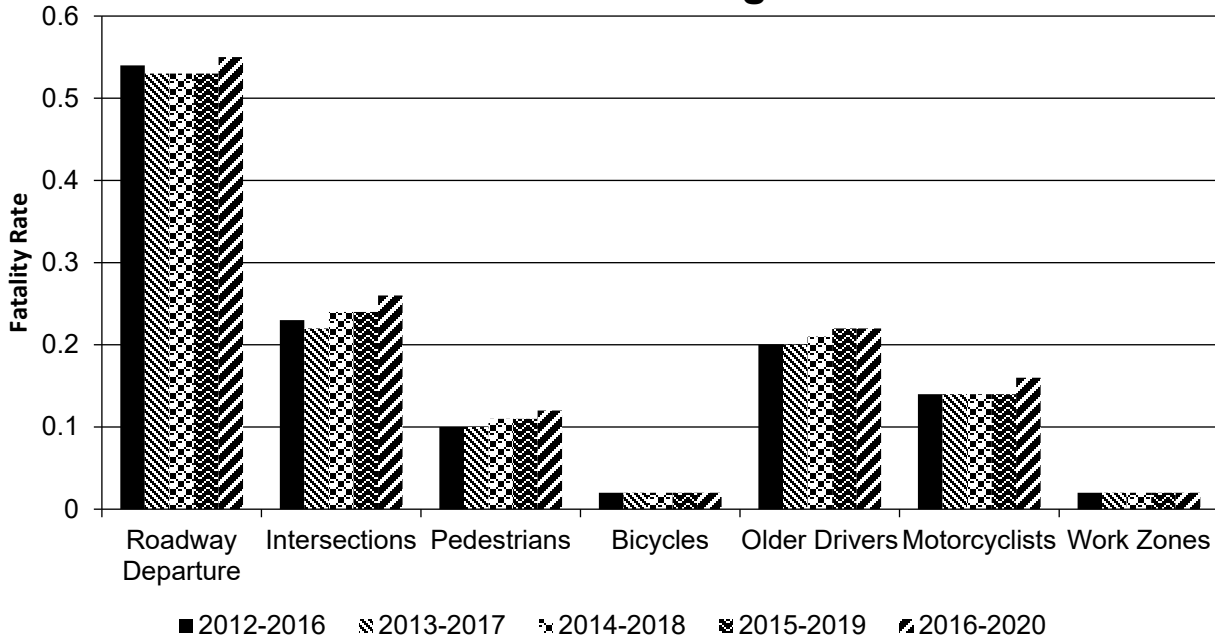
Number of Fatalities 5 Year Average



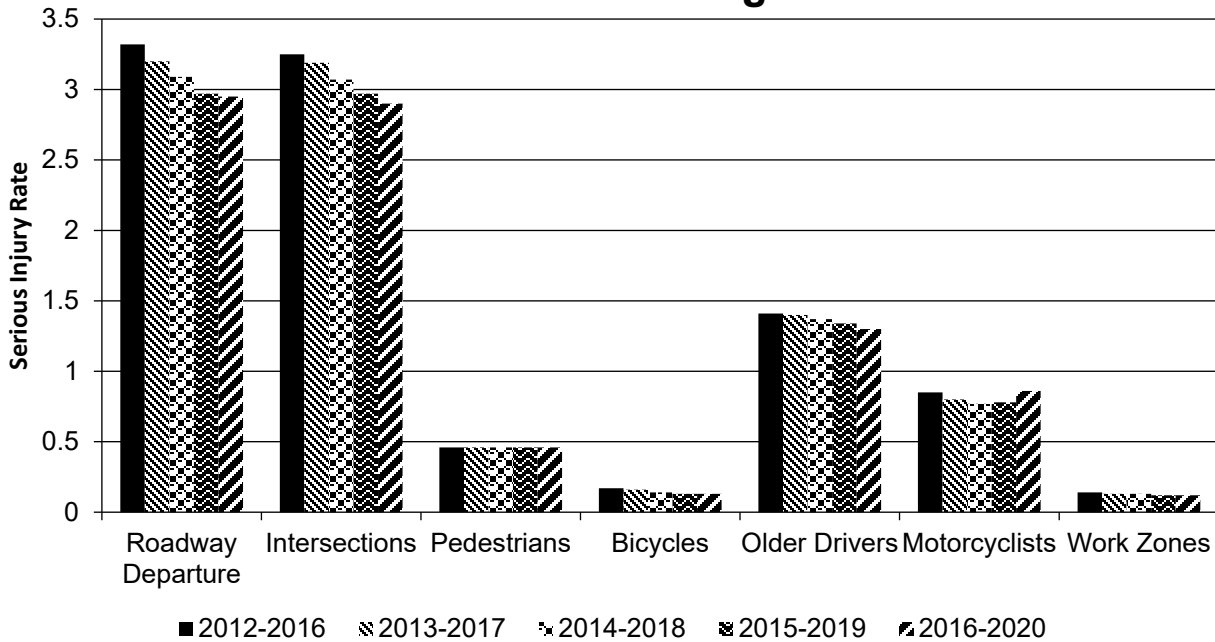
Number of Serious Injuries 5 Year Average



Fatality Rate (per HMVMT) 5 Year Average



Serious Injury Rate (per HMVMT) 5 Year Average



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)
96421 - HAM/BUT-75-17.22/0.00	Urban Principal Arterial (UPA) - Interstate	Interchange design	Acceleration / deceleration / merge lane	19.41	20.67		0.33		0.67	6.59	9.33	26.00	31.00	-0.27
83629 - TRU US 0422 09.34	Urban Principal Arterial (UPA) - Other	Intersection geometry	Add/modify auxiliary lanes	5.09	3.67			0.30		1.50	1.67	6.89	5.34	21.85
84977 - SUM Graham Road (Widening)	Urban Minor Arterial	Intersection geometry	Add/modify auxiliary lanes	52.49	53.00			1.77		18.09	15.33	72.35	68.33	5.27
85245 - MAH US 0224 13.64	Urban Principal Arterial (UPA) - Other	Intersection geometry	Add/modify auxiliary lanes	39.66	27.67			1.65	0.67	13.63	10.00	54.94	38.34	4.93
86843 - LUC US 20 10.12 (Central/H-Syl)	Urban Principal Arterial (UPA) - Other	Intersection geometry	Add/modify auxiliary lanes	20.77	11.67			0.64	0.33	6.39	2.67	27.80	14.67	5.01
86846 - HEN SR 108 16.10 Widen	Urban Minor Arterial	Intersection geometry	Add/modify auxiliary lanes	14.79	16.00			1.08		2.89	3.00	18.76	19.00	5.14
87761 - CLE SR 28 5.01	Urban Minor Arterial	Intersection geometry	Add/modify auxiliary lanes	47.73	42.00			4.12	1.33	29.63	11.00	81.48	54.33	0.88
87823 - FRA CR 14 5.41	Urban Local Road or Street	Intersection geometry	Add/modify auxiliary lanes	0.74	1.33					0.74		1.48	1.33	73.38
91467 - WAR US 22 4.64	Urban Principal Arterial (UPA) - Other	Intersection geometry	Add/modify auxiliary lanes	20.16	8.00			0.65		4.55	1.33	25.36	9.33	0.73
93801 - BRO US 68 30.72 Safety	Rural Principal Arterial (RPA) - Other	Intersection geometry	Add/modify auxiliary lanes	20.19	24.00	0.71			0.33	6.02	5.33	26.92	29.66	0.46
94717 - WAR CR 23 0.26	Urban Local Road or Street	Intersection geometry	Add/modify auxiliary lanes	3.62	1.67			0.40		1.21		5.23	1.67	1.45
96221 - BUT US 127 0.00	Urban Principal	Intersection geometry	Add/modify auxiliary lanes	7.63	9.33					1.73	2.33	9.36	11.66	-3.95

2021 Ohio Highway Safety Improvement Program

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													
93316 - MAR CR 221-A1	Urban Minor Arterial	Alignment	Alignment other -	1.67	1.33					1.00	1.00	2.67	2.33	195.68
94622 - LOR Chester Road at SR 611	Urban Local Road or Street	Alignment	Alignment other -	3.66	2.00					0.73	2.00	4.39	4.00	-17.7
96439 - MOT US 35 10.32	Urban Principal Arterial (UPA) - Other Freeways and Expressways	Roadside	Barrier concrete -	27.56	16.00	0.39	0.33	2.33	1.00	13.59	6.67	43.87	24.00	0.26
94602 - D08 GR FY2014/2015	Urban Principal Arterial (UPA) - Other	Roadside	Barrier- metal	1019.81	821.67	3.07	3.00	23.00	20.00	299.04	258.33	1344.92	1103.00	0.12
95448 - D04 GR FY2015A	Urban Principal Arterial (UPA) - Interstate	Roadside	Barrier- metal	168.85	156.33	0.80		3.20	2.33	23.21	33.00	196.06	191.66	0.14
98079 - WAR Lebanon Ped Improvements	Urban Principal Arterial (UPA) - Other	Pedestrians and bicyclists	Install new crosswalk	5.50	2.33					0.61	0.33	6.11	2.66	1.1
89541 - CAR SR 542 13.18	Rural Major Collector	Alignment	Horizontal curve realignment	0.71						0.36		1.07		13.08
90649 - FRA SR 3 24.47 Sidewalks	Urban Minor Arterial	Pedestrians and bicyclists	Install sidewalk	98.51	92.00	0.36		4.67	1.67	39.19	38.33	142.73	132.00	0.73
84506 - FRA IR 270 10.160	Urban Minor Arterial	Interchange design	Interchange design - other	90.49	87.67	0.35	1.00	1.40	1.33	32.97	27.67	125.21	117.67	-3.06
91066 - HAM IR 71 12.44	Urban Principal Arterial (UPA) - Interstate	Interchange design	Interchange design - other	84.71	52.00				0.33	15.62	12.33	100.33	64.66	1.57
94460 - FRA IR 70/Hilliard Rome Int	Urban Principal Arterial (UPA) - Other	Interchange design	Interchange design - other	42.38	56.33		0.33	1.39	1.67	13.90	22.00	57.67	80.33	-0.79
94723 - CUY IR 480 11.60 Interchange	Urban Principal	Interchange design	Interchange design - other	11.14	11.33			1.01		5.74	4.00	17.89	15.33	1.77

2021 Ohio Highway Safety Improvement Program

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) - Interstate													
96352 - WOO 280/420 0.00/2.60 Safty Impr	Rural Principal Arterial (RPA) - Other	Interchange design	Interchange design - other	11.89	3.00				0.33	3.66	1.00	15.55	4.33	3.73
83005 - CUY MLK BOULEVARD	Urban Principal Arterial (UPA) - Other	Intersection geometry	Intersection geometry - other	15.51	61.67		0.33		1.00	5.04	22.33	20.55	85.33	-1.67
83548 - ERI US 0250 01.92	Urban Principal Arterial (UPA) - Other	Intersection geometry	Intersection geometry - other	18.50	19.00	0.35		0.35	0.33	3.84	4.67	23.04	24.00	1.67
92554 - GRE CR 36 0.27	Urban Minor Arterial	Intersection geometry	Intersection geometry - other	6.59	19.67					0.63	4.00	7.22	23.67	-0.21
92582 - OTT SR 53 4.90 Safety lprov	Urban Minor Arterial	Intersection geometry	Intersection geometry - other	3.89	2.67			0.49	0.33	1.46	1.00	5.84	4.00	5.39
86863 - WAS SR 7 22.900 Green/7th ST	Urban Principal Arterial (UPA) - Other	Intersection geometry	Intersection geometry - other	14.07	15.33					2.81	1.33	16.88	16.66	13.21
93564 - LUC US 20 10.65 Safety	Urban Principal Arterial (UPA) - Other	Intersection traffic control	Intersection signing - other	23.43	11.33			1.05		9.09	2.33	33.57	13.66	0.13
96567 - MED SR 0094 14.61 (I-271 Ramp)	Rural Major Collector	Intersection traffic control	Intersection traffic control - other	0.30	0.33						0.33	0.30	0.66	-2.61
77305 - ALL Shawnee Rd.	Urban Minor Arterial	Intersection traffic control	Modify control - Modern Roundabout		0.33					0.35		0.35	0.33	81.12
91888 - BUT SR 748 3.35	Rural Minor Collector	Intersection traffic control	Modify control - Modern Roundabout	0.36	0.33					1.43		1.79	0.33	2.3
95450 - FRA CR11 (ALKIRE RD) AT DEMOREST	Urban Minor Arterial	Intersection traffic control	Modify control - Modern Roundabout	2.21	1.33					0.37	0.33	2.58	1.66	31.32

2021 Ohio Highway Safety Improvement Program

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)
92495 - D05 FY2014 Signal Upgrade	Urban Principal Arterial (UPA) - Other	Intersection traffic control	Modify traffic signal – add backplates with retroreflective borders	15.05	9.00	0.31	0.33	0.92	0.67	3.38	5.00	19.66	15.00	-4.35
88721 - MOT SR 48 16.21	Urban Principal Arterial (UPA) - Other	Intersection traffic control	Modify control – other	44.33	64.33	0.66	0.67	1.97	5.67	26.93	45.00	73.89	115.67	-0.32
93306 - ATB/TRU TSG FT2015 (UPS)	Urban Major Collector	Intersection traffic control	Modify control – other	400.76	455.33	2.02	0.67	13.81	12.67	148.18	138.00	564.77	606.67	0.05
95927 - STA US 0062 38.04/39.50 Signals	Urban Minor Arterial	Intersection traffic control	Modify control – other	7.25	8.00			0.32	0.33	3.15	1.00	10.72	9.33	0.73
97206 - GRE US 35 5.04/6.24	Urban Principal Arterial (UPA) - Other	Intersection traffic control	Modify control – other	16.46	14.67	0.39			1.33	5.49	8.33	22.34	24.33	0.33
98768 - LUC US 24 21.47 Detroit@Glendale	Urban Minor Arterial	Intersection traffic control	Modify control – other	0.37						0.37	0.33	0.74	0.33	10.16
96463 - LIC TR 35 00.00	Rural Local Road or Street	Roadway	Pavement surface – high friction surface	1.47	2.00		0.33	0.73	0.33	0.73	0.33	2.93	2.99	-0.02
77474 - MED IR 0076 07.61	Urban Principal Arterial (UPA) - Interstate	Roadway	Pavement surface - other	77.44	81.00			1.26	1.33	22.73	17.00	101.43	99.33	34.07
82295 - HOC US 33 0.00	Rural Principal Arterial (RPA) - Other	Roadway	Pavement surface - other	2.70	24.67	0.39	0.33	3.47	0.33	4.24	10.67	10.80	36.00	30.07
83062 - SCI-335- 1.89	Rural Major Collector	Roadway	Pavement surface - other	24.18	19.33			1.47	1.33	5.60	9.67	31.25	30.33	-5.82
83203 - WAY SR 0585 02.75	Urban Minor Arterial	Roadway	Pavement surface - other	18.56	17.00			0.33	0.33	1.99	4.33	20.88	21.66	-16.23
86149 - DEL SR 3 1.380/5.41	Urban Principal Arterial (UPA) - Other	Roadway	Pavement surface - other	83.90	44.00			2.07	2.33	23.31	14.33	109.28	60.66	1.55

2021 Ohio Highway Safety Improvement Program

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)
87249 - SCI SR 139/335 0.52/10.30	Rural Major Collector	Roadway	Pavement surface - other	23.02	23.67			2.80	1.33	9.64	11.67	35.46	36.67	14.46
96841 - FRA-Cosgray Rd RRFB	Urban Minor Arterial	Pedestrians and bicyclists	Pedestrian beacons											0
92381 - FRA RAMP METER UPGRADE	Urban Principal Arterial (UPA) - Interstate	Interchange design	Innovative Interchange Modifications	1619.72	1540.00	6.05	4.67	41.20	36.00	542.43	607.00	2209.40	2187.67	0.25
83912 - WAR US 22 4.20	Urban Principal Arterial (UPA) - Other	Roadside	Roadside grading	0.34	0.67							0.34	0.67	-76.96
77920 - GRE IR 675 9.48	Urban Principal Arterial (UPA) - Interstate	Roadway	Roadway - other	93.58	68.33		0.33	0.69	1.33	23.83	23.33	118.10	93.32	-7.01
83555 - TUS SR 39 13.550	Urban Principal Arterial (UPA) - Other	Roadway	Roadway - other	17.93	11.00			0.73		5.49	1.67	24.15	12.67	1.77
84563 - SUM SR 8/82 20.27/0.14	Urban Minor Arterial	Roadway	Roadway - other	243.65	99.00			5.54	0.67	55.37	25.33	304.56	125.00	0.19
88253 - WOO SR 18 10.53 Relocate	Rural Major Collector	Roadway	Roadway - other	2.41	1.67							2.41	1.67	219.72
76691 - ALL IR 75 5.530	Urban Principal Arterial (UPA) - Interstate	Roadway	Roadway widening - add lane(s) along segment	140.36	70.00	0.69		7.23	6.33	43.69	14.67	191.97	91.00	3.67
81605 - SUM State Road	Urban Minor Arterial	Roadway	Roadway widening - add lane(s) along segment	23.76	34.67			2.48	1.67	7.09	6.33	33.33	42.67	19.58
88667 - CUY US 042 00.00	Urban Principal Arterial (UPA) - Other	Roadway	Roadway widening - add lane(s) along segment	4.59	3.67					2.09	1.00	6.68	4.67	20.78
80665 - SUM Lauby Road	Urban Major Collector	Roadway	Roadway widening - travel lanes	2.67	4.33				0.33	0.76	3.00	3.43	7.66	-3.5

2021 Ohio Highway Safety Improvement Program

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)
90259 - LUC SR 246 2.00 Safety	Urban Principal Arterial (UPA) - Other	Roadway	Roadway widening - travel lanes	94.57	40.33	0.37		3.34	1.67	26.70	10.00	124.98	52.00	0.44
92910 - CUY SR 252 04.11 HSP	Urban Principal Arterial (UPA) - Other	Roadway	Roadway widening - travel lanes	51.77	38.33			0.80	0.33	13.54	8.67	66.11	47.33	0.47

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

The next update will be completed by November 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	97					100	97	100	97
	Route Number (8) [8]	100	97								
	Route/Street Name (9) [9]	100	97								
	Federal Aid/Route Type (21) [21]	100	97								
	Rural/Urban Designation (20) [20]	100	97					100	97		
	Surface Type (23) [24]	100	97					100	97		
	Begin Point Segment Descriptor (10) [10]	100	97					100	97	100	97
	End Point Segment Descriptor (11) [11]	100	97					100	97	100	97
	Segment Length (13) [13]	100	97								
	Direction of Inventory (18) [18]	100	97								
Functional Class (19) [19]	100	97					100	97	100	97	

2021 Ohio Highway Safety Improvement Program

ROAD TYPE	*MIRE NAME (MIRE NO.)	NON LOCAL PAVED ROADS – SEGMENT		NON LOCAL PAVED ROADS - INTERSECTION		NON LOCAL PAVED ROADS - RAMPS		LOCAL PAVED ROADS		UNPAVED ROADS	
		STATE	NON-STATE	STATE	NON-STATE	STATE	NON-STATE	STATE	NON-STATE	STATE	NON-STATE
	Median Type (54) [55]	100	97								
	Access Control (22) [23]	100	97								
	One/Two Way Operations (91) [93]	100	97								
	Number of Through Lanes (31) [32]	100	97					100	97		
	Average Annual Daily Traffic (79) [81]	100	97					100	97		
	AADT Year (80) [82]	100	97								
	Type of Governmental Ownership (4) [4]	100	97					100	97	100	97
INTERSECTION	Unique Junction Identifier (120) [110]			100	97						
	Location Identifier for Road 1 Crossing Point (122) [112]			100	97						
	Location Identifier for Road 2 Crossing Point (123) [113]			100	97						
	Intersection/Junction Geometry (126) [116]			100	97						
	Intersection/Junction Traffic Control (131) [131]			100	97						
	AADT for Each Intersecting Road (79) [81]			100	97						
	AADT Year (80) [82]			100	97						
	Unique Approach Identifier (139) [129]			100	97						
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	97.00	100.00	97.00	100.00	100.00	100.00	97.00	100.00	97.00

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

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

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.

Optional Attachments

Program Structure:

HSIP Procedures Manual.pdf

Safety_Analysis_Guidelines.pdf

Highway Safety Improvement Program Guidance.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.