
NEVADA

Traffic Records Strategic Plan

July 28, 2023

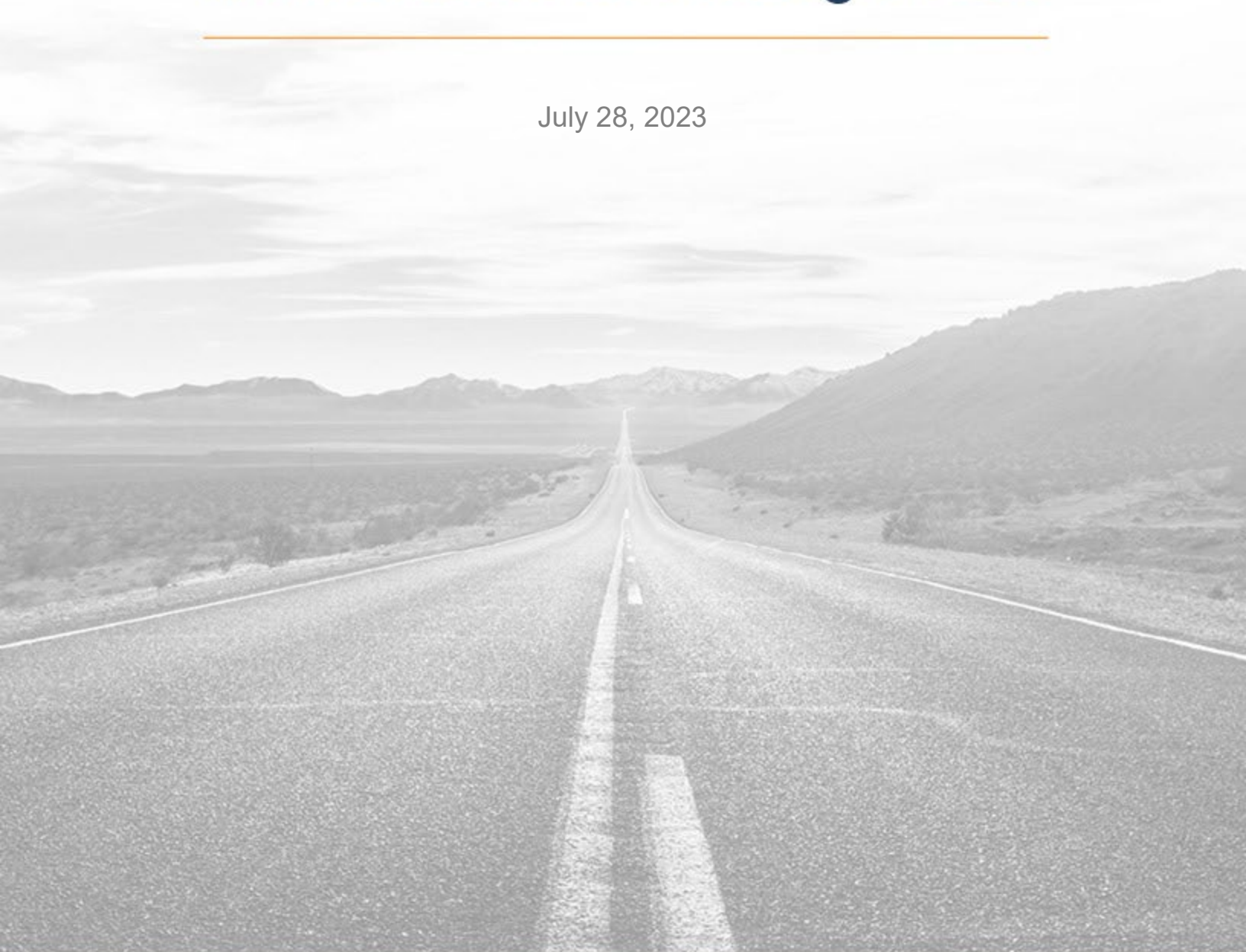


Table of Contents

1. Acknowledgements.....	4
2. Introduction	5
2.1 Background of the Traffic Records Strategic Plan	5
2.2 Organization of the Traffic Records Strategic Plan.....	6
3. Traffic Records System Overview	8
3.1 Crash	8
3.2 Driver	8
3.3 Vehicle.....	8
3.4 Roadway.....	8
3.5 Citation/Adjudication.....	9
3.6 Injury Surveillance.....	9
4. TRCC Background	9
4.1 TRCC Governance.....	9
4.2 TRCC Membership.....	11
5. Traffic Records Strategic Approach.....	13
5.1 Traffic Records System Performance	19
5.2 MIRE Fundamental Data Element Collection	21
5.2.1 MIRE Fundamental Data Elements Collected	21
5.2.2 Anticipated Improvements	21
5.2.3 Data Collection Methodology	21
5.2.4 Agency Coordination	21
6. Traffic Records Projects.....	21
6.1 2024 Traffic Records Project Prioritization	21
6.2 Traffic Records System Improvement Project Listing	23
7. Data Quality Management	24
7.1 Statewide Performance Measures and Metrics	24
8. Commitment to the Strategic Plan.....	25
8.1 Traffic Records Strategic Plan Implementation	25

Table of Figures

Figure 1. Strategic Planning Process 6

Table of Tables

Table 1. TRCC Membership 12
Table 2. Traffic Records Improvement Project Listing..... 23
Table 3. Performance Measures Summary – Under Development and Review 24

1. Acknowledgements

The completion of the TRCC Strategic Plan would not be possible without the contributions from the dedicated multi-disciplinary stakeholders. Thank you for your dedication to traffic record system improvements and the vision of the strategic plan.

Nevada Department of Public Safety – Office of Traffic Safety

Kevin Tice, Traffic Records Manager

Amy Davey, Administrator

Nevada Department of Transportation

Casey Smith, Assistant Chief, Roadway Systems

Lacey Tisler, Chief, Traffic Safety Engineering

Matthew Williams, Transportation Analyst, Traffic Safety Engineering

Key Traffic Records Partners

Shashi Nambisan, Professor, University of Nevada Las Vegas (UNLV) Transportation Research Center

Noe Antolin, Kirk Kerkorian School of Medicine at UNLV

Brenda Witt, Manager I, Central Services Division, Nevada Department of Motor Vehicles (DMV)

Kevin Honea, Major, Nevada State Police (NHP)

Karl Nieberlein, Project Manager, Enforcement Mobile, Tyler Technologies

Mike Colety, Kimley-Horn

Lindsay Saner, Kimley-Horn

2. Introduction

2.1 Background of the Traffic Records Strategic Plan

Traffic records are a key component in the effort to improve the safety of a state's transportation system by allowing for the analysis of crash data to aid in the identification, deployment, and evaluation of traffic safety countermeasures.

Per 23 CFR 1300.22 *State Traffic safety information system improvements grants*, to qualify for Section 405c funding, states shall submit a Traffic Records Strategic Plan, approved by the Traffic Records Coordinating Committee (TRCC) that:

- Describes specific, quantifiable, and measurable improvements that are anticipated in the State's core safety databases, including crash, citation or adjudication, driver, emergency medical services or injury surveillance system, roadway, and vehicle databases.
- Includes a list of all recommendations from its most recent highway safety data and traffic records system assessment.
- Identifies which recommendations the State intends to address in the fiscal year, the projects in the HSP that implement each recommendation, and the performance measures to be used to demonstrate quantifiable and measurable progress.
- Identifies which recommendations the State does not intend to address in the fiscal year and explains the reason for not implementing the recommendations.
- Demonstrates quantitative improvement in the data attribute of accuracy, completeness, timeliness, uniformity, accessibility, or integration of a core database by providing written performance measures in the preceding 12 months of the application due date in relation to one or more of the significant data program attributes.

The strategic plan development process began with defining needs and establishing the vision and mission. Goals, objectives and potential projects were developed based on the needs, vision and mission. Prioritized projects were incorporated into the plan, including performance measures and funding. The strategic planning process is illustrated in **Figure 1**.

Figure 1. Strategic Planning Process



2.2 Organization of the Traffic Records Strategic Plan

The Traffic Records Strategic Plan is organized into the following six sections:

Traffic Records System Overview

This section provides a brief overview of each of the State traffic records systems (e.g., crash system). Include any details regarding integration with other data sets.

TRCC Background

This section covers Nevada’s TRCC’s history, governance, and membership.

Traffic Records Strategic Approach

This section covers the needs, vision, mission, and goals for Nevada’s traffic records system. This section details the recommendations from the 2021 Traffic Records Assessment and Nevada’s updated planned responses. Statewide data quality performance measures are also included.

Traffic Records Projects

This section describes the project prioritization process and provides information on all projects included in the Traffic Records Strategic Plan. A summary template is provided for each statewide goal that displays corresponding objectives, projects, and recommendations.

Data Quality Management

This section provides an overview of the statewide performance measures and metrics that the TRCC will use to monitor data quality improvement. A table is included to display the relationship between the data quality attributes and core data systems with established performance measures, metrics, goals, and objectives.

Commitment to the Strategic Plan

This section describes Nevada's commitment to the Traffic Records Strategic Plan and describes the processes used to implement the plan.

3. Traffic Records System Overview

The Traffic Records System includes the following six primary data components:

1. Crash
2. Driver
3. Vehicle
4. Roadway
5. Citation/Adjudication
6. Injury Surveillance

The following subsections provide contact information and an overview of these data components.

3.1 Crash

Nevada Department of Transportation

Contact: Matt Williams, Transportation Analyst, Traffic Safety Engineering Division

NDOT manages the Nevada crash records database. The data includes crash level information from all law enforcement agencies across the state, to include scene and roadway information, driver and person information, and vehicle information.

3.2 Driver

Nevada Department of Motor Vehicles

Contact: Brenda Witt, Manager I, Central Services Division

The Nevada DMV maintains the driver database for the state.

3.3 Vehicle

Nevada Department of Motor Vehicles

Contact: Natasha LaVelle, Services Technician 4, Central Services Division

The Nevada DMV maintains the vehicle database for the state.

3.4 Roadway

Nevada Department of Transportation

Contact: Casey Smith, Assistant Chief, Roadway Systems

Check website (NDOT)

At the State level, NDOT Roadway Systems is responsible for the maintenance of the road inventory, administration of the milepost program and collection of roadway images.

3.5 Citation/Adjudication

Office of Traffic Safety/Administrative Office of the Courts

Contact: Kevin Tice, Traffic Records Program Manager, Office of Traffic Safety

Contact: Amber Putz, Administrative Office of the Courts

Citation data is collected through the Enforcement Mobile Software, which is deployed to all law enforcement agencies in the state and managed by the Office of Traffic Safety.

Adjudication data is the responsibility of the Administrative Office of the Courts (AOC).

3.6 Injury Surveillance

Kerkorian School of Medicine at UNLV

Contact: Noe Antolin, Grants and Research Director

The injury surveillance system tracks the frequency, severity, and nature of injuries sustained in motor vehicle crashes; enables the integration of injury data with the crash data; and makes this information available for analysis that supports research, prevention, problem identification, policy-level decision-making, and efficient resource allocation.

Road user trauma registry data is provided by Nevada's four (4) American College of Surgeons (ACS) approved trauma centers. Trauma data includes hospital outcomes (e.g., injury severity, length of stay, hospital charges, disposition, etc.) for individuals injured on roads and admitted to a Nevada trauma center.

Emergency Medical Services data in Nevada is included in the National Emergency Medical Services Information System (NEMSIS) national database. Nevada's Department of Health and Human Services Department (DHHS) is the owner of the data.

Nevada statewide hospital discharge data for individuals injured as a road user is provided by UNLV's Center for Health Information Analysis. This data set includes road users admitted for trauma, emergency medicine, elective services, and urgent care treatment in Nevada.

4. TRCC Background

4.1 TRCC Governance

Traffic Records Committee Structure:

The Traffic Records Committee is established at two levels. The Executive Level; hereafter referred to as the Nevada Advisory Committee on Traffic Safety (NFACTS), and the Technical Level; hereafter referred to as the Traffic Records Coordinating Committee (TRCC).

Traffic Records Coordinating Committee Authority:

Traffic Records Coordinating Committee is established by the TRCC Charter and By-laws (included as an appendix to this document). By-laws can be changed by the membership of the TRCC. Any changes,

additions or deletions to the By-laws must be presented in writing to all current TRCC members a minimum of seven (7) days before voting is scheduled. Changes, additions or deletions to the By-laws must be approved by two-thirds (2/3) of the voting members present.

- The TRCC's primary authority is to complete projects for the integration and enhancement of the Highway Safety Information Systems in Nevada.
- Each member of the TRCC shall serve at the discretion of their respective agency.
- Members shall receive no compensation, other than that received in the performance of their assigned duties.
- The TRCC shall elect a chair and vice-chair.
- The chair shall serve for a period of two years, with election in even number years. In the event the position is vacant, election will occur during the next TRCC meeting.
- The vice-chair shall serve for a period of two years and will be elected in odd number years. In the event the position is vacant, election will occur during the next TRCC meeting.
- Elections shall be held annually at the regular TRCC meeting scheduled prior to and closest to the month of June, with the office holder chosen by a majority vote of the TRCC member agencies present at the meeting, and the office assumed on July 1.
- The chair shall be responsible for calling meetings of the committee, notifying members, preparing and posting meeting agendas, and maintaining meeting records.
- The chair shall speak for and on behalf of committee and committee members on all inquiries presented to the committee and committee members on matters relating to committee business.
- The chair shall disseminate information on Highway Safety Information Systems to all members of the committee.
- The Department of Public Safety – Office of Traffic Safety Traffic Records Program Manager shall provide staff support to the chair and to the TRCC and serve as TRCC coordinator, unless this effort is designated to a consultant.

4.2 TRCC Membership

The TRCC has an active, multidisciplinary membership that includes owners, operators, collectors and users of traffic records and public health and injury control data systems, highway safety, highway infrastructure, law enforcement, adjudication officials, public health, emergency medical service, injury control, driver licensing, and motor carrier agencies and organizations. A vendor or contractor providing services to a TRCC member agency is disqualified from being a member of the TRCC. A TRCC member agency receiving a grant from the Office of Traffic Safety, Department of Transportation or other public entity does not qualify as a “vendor” for purposes of membership.

The Nevada Traffic Records Coordinating Committee (TRCC) membership is comprised of owners, operators, collectors, and users of Nevada’s six traffic records data systems. At least one member represents each of the following core safety databases: (C) Crash; (D) Driver; (V) Vehicle; (R) Roadway; (C/A) Citation/Adjudication; and (I) Injury Surveillance System. See Table 1 on the following page.

Subcommittees

Enforcement Mobile (Brazos) Working Group

NEVADA TRAFFIC RECORDS STRATEGIC PLAN

Table 1. TRCC Membership

Name	Title	Agency	System
Kevin Tice	Traffic Records Program Manager	DPS-OTS	C, C/A
Casey Smith	Assistant Chief	NDOT Roadway Systems	C, R
Brenda Witt	Manager I	DMV	D, V
Juan Balbuena	Safety/LPA Engineer	Federal Highway Administration	C, R
Adam Anderson	FARS Analyst	DPS-OTS	C
Amanda Brandenburg	Vulnerable Road Users Program Manager	DPS-OTS	C
Sherri Brueggemann	DPS Deputy Director	DPS-OTS	C
Matthew Cambron	Motorcycle Regional Coordinator	DPS-OTS	C
Shannon Bryant	Traffic Safety Resource Prosecutor	Washoe County District Attorney	C, C/A
Amy Davey	Administrator	DPS-OTS	C
Carrie Krupp	Joining Forces Program Manager	DPS-OTS	C
Meg Matta	Impaired Driving Program Manager	DPS-OTS	C
Justin McDonald	Nevada Rider Program Administrator	DPS-OTS	C
Tiffany May Noel	Community Engagement & Diversity Outreach Coordinator	DPS-OTS	C
Mohammed Farhan	Principal Planner	Regional Transportation Commission of Southern Nevada (RTC)	C, R
Kevin Honea	Major	Nevada State Police	C, D, V
Karl Nieberlein	Project Manager	Tyler Technologies- Enforcement Mobile	C, C/A
Raul Ramirez	Electronics Technician 2	Nevada State Police	A, B, C
Sean Robinson	Senior Engineer	City of Las Vegas	C, R
Hao Xu	Assistant Professor	University of Nevada Reno	C, R
Shashi Nambisan	Director Transportation Research Center	University of Nevada Las Vegas (UNLV)	C, C/A, R
Christian Arteaga Sanchez	Researcher	University of Nevada Las Vegas	C
Jay Park	Researcher	University of Nevada Las Vegas	C
Noehealani Antolin	Grants and Research Director	UNLV School of Medicine	C, I
Lacey Tisler	Chief	NDOT Traffic Safety Engineering	C, R
Matt Williams	Transportation Analyst	NDOT Traffic Safety Engineering	C, R
Timber Wood	Associate Engineer	NDOT Traffic Safety Engineering	C, R
Jodi Swirczek	Transportation Analyst	NDOT Roadway Systems	C, R
Andrew Bennett	Director	Clark County Office of Traffic Safety	C, C/A
Mike Colety	Senior Vice President	Kimley-Horn	C, R
David Giacomini	Engineer/Data Analysis	Kimley-Horn	C, R

5. Traffic Records Strategic Approach

The Traffic Records Strategic Plan supports a formal approach for system improvements for Nevada's Traffic Records by identifying goals, objectives and projects to implement the recommendations from the 2021 State of Nevada Traffic Records Assessment.

This section includes the vision, mission, goals and objectives for the Traffic Records Strategic Plan.

Provide information on the development of the traffic records needs, vision, mission, goals, performance measures, traffic records assessment responses and indicators of performance achievement.

Traffic Records Strategic Plan Vision

Traffic safety professionals use linked traffic safety data to pinpoint specific traffic safety issues and associated strategies to eliminate all fatal and serious injuries on Nevada's roadways.

Traffic Records Strategic Plan Mission

To improve the use of relevant traffic records in support of the strategic implementation of traffic safety strategies for the elimination of deaths and serious injuries on Nevada's roadways so everyone arrives home safely.

Traffic Records Strategic Plan Goals

In support of Nevada's Strategic Highway Safety Plan (SHSP) and the Highway Safety Plan (HSP) this strategic plan specifies how Nevada's traffic safety partners will improve the six primary data quality attributes (Timeliness, Accuracy, Completeness, Uniformity, Integration, and Accessibility) for the six primary data components (Crash, Driver, Vehicle, Roadway, Citation/Adjudication, and Injury Surveillance) in order to more effectively target strategies that reduce serious injuries and traffic fatalities towards Nevada's Zero Fatalities Goal.

The following are the Traffic Records Strategic Plan Goals and Objectives:

- For all agencies in Nevada that issue crashes and citations to effectively use electronic collection and reporting in the Enforcement Mobile (Brazos) system
 - Objective: Increase the number of agencies using e-crash and/or e-citation
 - Objective: Increase the percent of crash records that include race/ethnicity, if arrested, and if searched what was found
- To improve the quality of data within the Crash Data System
 - Objective: Improve the uniformity of the Crash Data System
- For crash data to be effectively used for data-driven decisions
 - Objective: Improve the timeliness of the Crash Data System
 - Objective: Improve the accuracy of the geolocation of the crash data
- For crash data to be able to be analyzed using linked Roadway Data
 - Objective: Increase the number of Data Elements in the Roadway Data File
- For trauma data to be able to be linked to crash data and analyzed to support safety initiatives
 - Objective: Increase the linkage of trauma records that are linked to crash records
- To improve the availability and use of citation and adjudication data
 - Objective: Determine best practices to apply in Nevada to improve the availability and use of citation and adjudication data

2021 Traffic Records Assessment Recommendations

The 2021 Traffic Records Self-Assessment resulted in recommendations for the following categories:

- Crash Data System
- Driver Data System
- Vehicle Data System
- Roadway Data System
- Citation/Adjudication
- Injury Surveillance

The list of all recommendations from the 2021 Assessment for Nevada and whether the recommendation is planned to be addressed this year or not is shown below. There is additional information regarding each recommendation following the list.

	Does State Intend to Address?
Crash Recommendations	
1. Improve the interfaces with the Crash data system that reflect best practices identified in the Traffic Records Program Assessment Advisory.	Yes
2. Improve the data quality control program for the Crash data system that reflect best practices identified in the Traffic Records Program Assessment Advisory.	Yes
Driver Recommendations	
1. Improve the data dictionary for the Driver data system that reflect best practices identified in the Traffic Records Program Assessment Advisory.	Not in this fiscal year
2. Improve the data quality control program for the Driver data system that reflect best practices identified in the Traffic Records Program Assessment Advisory.	Not in this fiscal year
Vehicle Recommendations	
1. Improve the procedures/ process flows for the Vehicle data system that reflect best practices identified in the Traffic Records Program Assessment Advisory.	Not in this fiscal year
2. Improve the data quality control program for the Vehicle data system that reflect best practices identified in the Traffic Records Program Assessment Advisory.	Not in this fiscal year
Roadway Recommendations	
1. Improve the procedures/ process flows for the Roadway data system that reflect best practices identified in the Traffic Records Program Assessment Advisory.	Yes
2. Improve the data quality control program for the Roadway data system that reflect best practices identified in the Traffic Records Program Assessment Advisory.	Yes

Citation and Adjudication Recommendations

- | | |
|--|-------------------------|
| 1. Improve the applicable guidelines for the Citation and Adjudication systems that reflect best practices identified in the Traffic Records Program Assessment Advisory. | Yes |
| 2. Improve the data dictionary for the Citation and Adjudication systems that reflect best practices identified in the Traffic Records Program Assessment Advisory. | Not in this fiscal year |
| 3. Improve the procedures/ process flows for the Citation and Adjudication systems that reflect best practices identified in the Traffic Records Program Assessment Advisory. | Yes |
| 4. Improve the data quality control program for the Citation and Adjudication systems that reflect best practices identified in the Traffic Records Program Assessment Advisory. | Yes |

Injury Surveillance Recommendations

- | | |
|--|-----|
| 1. Improve the description and contents of the Injury Surveillance systems that reflect best practices identified in the Traffic Records Program Assessment Advisory. | Yes |
| 2. Improve the interfaces with the Injury Surveillance systems that reflect best practices identified in the Traffic Records Program Assessment Advisory. | Yes |
| 3. Improve the data quality control program for the Injury Surveillance systems that reflect best practices identified in the Traffic Records Program Assessment Advisory. | Yes |

Data Use & Integration Recommendations

- | | |
|--|-----|
| 1. Improve the traffic records systems capacity to integrate data that reflect best practices identified in the Traffic Records Program Assessment Advisory. | Yes |
|--|-----|

The recommendations, status, and supporting activities are provided in the following subsections.

Crash Data System Recommendations from 2021 Assessment

-
1. Improve the interfaces with the Crash data system that reflect best practices identified in the Traffic Records Program Assessment Advisory.

Status

NDOT and OTS are leading numerous projects to improve the interfaces with the crash data system with the primary focus of increasing the number of agencies using the Brazos system, improving the completeness of geolocation data for crashes and the timeliness of the getting the crashes into the database.

Supporting Activities

Project Title or Activity Description Tyler Technologies Enforcement Mobile (Brazos) Software System, which will continue the maintenance of the Brazos system and expand capabilities including improving geolocation capabilities within the electronic reporting system by law enforcement officers. Included in Highway Safety Plan: Yes, Project ID: TBD

Project Title or Activity Description: Enforcement Mobile (Brazos) Interface and Equipment, which provides support to partner agencies on the use of the crash data system. Included in Highway Safety Plan: Yes, Project ID: TBD

Project Title or Activity Description: Additional Tablets and Wireless Printers
Included in Highway Safety Plan: Yes, Project ID: TBD

2. Improve the data quality control program for the Crash data system that reflect best practices identified in the Traffic Records Program Assessment Advisory.

Status

NDOT and OTS are leading numerous projects to improve the data quality within the crash data system.

Supporting Activities

Project Title or Activity Description: Provide training of law enforcement officers on crash investigation and data entry.
Included in Highway Safety Plan: Yes, Project ID: TBD

Project Title or Activity Description Research best practices for improving the completeness and/or accuracy of crash data
Included in Highway Safety Plan: Yes, Project ID: TBD

Driver Data System Recommendations from 2021 Assessment

1. Improve the data dictionary for the Driver data system that reflect best practices identified in the Traffic Records Program Assessment Advisory.

Status

This recommendation is not planned to be addressed this fiscal year due to the current goals and objectives that are focused on improving the crash data, roadway, and injury surveillance systems. There are current activities to improve coordination with the DMV and put Nevada in position to address this recommendation in the future.

2. Improve the data quality control program for the Driver data system that reflect best practices identified in the Traffic Records Program Assessment Advisory.

Status

This recommendation is not planned to be addressed this fiscal year due to the current goals and objectives that are focused on improving the crash data, roadway, and injury surveillance systems.

There are current activities to improve coordination with the DMV and put Nevada in position to address this recommendation in the future.

Vehicle Data System Recommendations from 2021 Assessment

1. Improve the procedures/process flows for the Vehicle data system that reflect best practices identified in the Traffic Records Program Assessment Advisory.

Status

This recommendation is not planned to be addressed this fiscal year due to the current goals and objectives that are focused on improving the crash data, roadway, and injury surveillance systems. There are current activities to improve coordination with the DMV and put Nevada in position to address this recommendation in the future.

2. Improve the data quality control program for the Vehicle data system that reflect best practices identified in the Traffic Records Program Assessment Advisory.

Status

This recommendation is not planned to be addressed this fiscal year due to the current goals and objectives that are focused on improving the crash data, roadway, and injury surveillance systems. There are current activities to improve coordination with the DMV and put Nevada in position to address this recommendation in the future.

Roadway Data System Recommendations from 2021 Assessment

1. Improve the procedures/process flows for the Roadway data system that reflect best practices identified in the Traffic Records Program Assessment Advisory.

Status

NDOT is leading the effort on improving the roadway data system to include the MIRE elements.

Supporting Activities

Project Title or Activity Description: NDOT Roadway Systems MIRE Data Collection, which is an ongoing effort by NDOT's Roadway Systems and Traffic Safety Engineering Sections. Included in Highway Safety Plan: No (NDOT funded)

2. Improve the data quality control program for the Roadway data system that reflect best practices identified in the Traffic Records Program Assessment Advisory.

Status

The status and supporting activities for this data quality control program for the Roadway data system are the same as for Roadway data system recommendation number 1.

Citation and Adjudication Systems Recommendations from [Year] Assessment

1. Improve the applicable guidelines for the Citation and Adjudication systems that reflect best practices identified in the Traffic Records Program Assessment Advisory.

Status

OTS is leading the efforts to improve the interfaces with the citation data system with the primary focus of improving the availability of citation and adjudication data.

Supporting Activities

Project Title or Activity Description Tyler Technologies Enforcement Mobile (Brazos) Software System, which will continue the maintenance of the Brazos system and expand capabilities of the system related to citations.

Included in Highway Safety Plan: Yes, Project ID: TBD

2. Improve the data dictionary for the Citation and Adjudication systems that reflect best practices identified in the Traffic Records Program Assessment Advisory.

Status

This recommendation is not planned to be addressed this fiscal year due to the current goals and objectives that are focused on improving the crash data, roadway, and injury surveillance systems. There are current activities to improve coordination with the DMV and put Nevada in position to address this recommendation in the future.

3. Improve the procedures/process flows for the Citation and Adjudication systems that reflect best practices identified in the Traffic Records Program Assessment Advisory.

Status

OTS is leading the efforts to improve the procedures/process flows for the Citation and Adjudication systems.

Supporting Activities

Project Title or Activity Description Complete a review of best practices and provide recommendations to integrate adjudication, citation, and enforcement (ACE) data sets aimed to enhance safety of road users.

Included in Highway Safety Plan: Yes, Project ID: TBD

4. Improve the data quality control program for the Citation and Adjudication systems that reflect best practices identified in the Traffic Records Program Assessment Advisory.

Status

The status and supporting activities for this recommendation are the same as those described for recommendations numbers one and three.

Injury Surveillance System Recommendations from 2021 Assessment

1. Improve the description and contents of the Injury Surveillance systems that reflect best practice identified in the Traffic Records Program Assessment Advisory.

Status

NDOT is leading the effort on improving the roadway data system through a contract with the University of Las Vegas School of Medicine.

Supporting Activities

Project Title or Activity Description: UNLV Nevada Road Users Linked Database Research, which includes efforts to improve the linkage of trauma data with crash data and to complete data analysis supporting traffic safety in Nevada.

Included in Highway Safety Plan: No (NDOT funded)

2. Improve the interfaces with the Injury Surveillance systems that reflect best practice identified in the Traffic Records Program Assessment Advisory.

Status

The status and supporting activities for this recommendation are the same as those described for recommendations number one.

3. Improve the data quality control program for the Injury Surveillance systems that reflect best practice identified in the Traffic Records Program Assessment Advisory.

Status

The status and supporting activities for this recommendation are the same as those described for recommendations number one.

Data Use and Integration Recommendations from 2021 Assessment

1. Improve the traffic records systems capacity to integrate data that reflect best practice identified in the Traffic Records Program Assessment Advisory.

Status

NDOT is leading efforts to improve the traffic records systems capacity to integrate data that reflect best practice identified in the Traffic Records Program Assessment Advisory.

Supporting Activities

Project Title or Activity Description: NDOT IT Traffic Records Database Assessment, which is evaluating options to integrate data in a common database.

Included in Highway Safety Plan: No (NDOT funded)

5.1 Traffic Records System Performance

This section demonstrates the annual progress for at least one of the data quality performance areas (timeliness, accuracy, completeness, uniformity, integration, accessibility).

Describe performance measure that addresses the quantitative progress requirement and submit supporting documentation demonstrating that quantitative improvements were achieved in the preceding 12 months. (no earlier than April of the previous calendar year as well as a comparative 12-month baseline period.)

Performance Measure 1: Traffic Records Core Database Improvement

Core Traffic Records Systems	
<input type="checkbox"/> Crash <input type="checkbox"/> Driver <input type="checkbox"/> Vehicle <input type="checkbox"/> Roadway <input checked="" type="checkbox"/> Citation/Adjudication <input type="checkbox"/> Injury Surveillance	
Data Quality Performance Attributes	
<input type="checkbox"/> Timeliness <input type="checkbox"/> Accuracy <input checked="" type="checkbox"/> Completeness <input type="checkbox"/> Uniformity <input type="checkbox"/> Data Integration <input type="checkbox"/> Accessibility	
Performance Measure to Track Improvement	
The number and percent increase of citations recorded by Las Vegas Metropolitan Police Department (LVMPD) in Enforcement Mobile.	
Performance Measure Improvement Achieved	
<p>Nevada utilizes a single citation and crash database, accessed by all law enforcement agencies, to issue, investigate, collect, and report citation and crash data. LVMPD is Nevada’s largest law enforcement agency serving Nevada’s largest urban area. Prior to 2022, LVMPD only recorded citations issued by their traffic division officers in the central system. Nevada OTS worked with LVMPD to deploy several hundred additional handheld electronic data system crash/citation recording devices to enable all law enforcement officers to access data entry into the system. This has greatly increased the overall completeness of records in the central database and eliminated the unreliable process of issuing written paper citations for infractions.</p>	
Measurement Technique	
The number and percent increase of citations recorded in Enforcement Mobile by LVMPD.	
Date and Values for Progress Achievement	
Baseline Period April 1, 2021 – March 31, 2022 Number of citations: 90,957	Progress Period April 1, 2022 – March 31, 2023 Number of citations: 146,167 % increase: 60.7%

5.2 MIRE Fundamental Data Element Collection

To comply with 23 CFR Part 924.11, Nevada continues to track collection of MIRE Fundamental Data Elements (FDEs) and is on track to provide access to the MIRE FDEs for all public roads by September 30, 2026. The percentage of MIRE FDEs collected, and a summary of planned improvements are provided in the following sections.

5.2.1 MIRE Fundamental Data Elements Collected

The percentage of MIRE FDE that Nevada has collected is documented in the Highway Safety Improvement Program (HSIP) Annual Report. The latest percentages are included in the table below.

67% Total Percent of MIRE FDE Collected
80% Segment FDE Collected (Lacking # of through lanes, AADT and surface type for Locals.)
30% Intersection FDE Collected (Lacking intersection/junction geometry and traffic control.)
90% Interchange FDE Collected (Need clarification on Roadway type at beginning and end of ramp terminal.)

5.2.2 Anticipated Improvements

Recently completed actions include mapping subsequent overlap between HPMS and MIRE data elements, participation in Federal Highway Administration FDEs mapping report, the investigation of database management system to create a MIRE repository, and the collection and identification of safety gaps not addressed by MIRE, State, or Federal guidance.

5.2.3 Data Collection Methodology

Data extraction from the Road Video Lidar system is underway, and once completed, data will be utilized in safety tools and/or other tools. Data evaluation shall include HSIP quality control, ensuring the accuracy of safety data.

5.2.4 Agency Coordination

The collection of MIRE FDE has been an NDOT effort.

6. Traffic Records Projects

6.1 2024 Traffic Records Project Prioritization

Projects for traffic records were solicited as part of the OTS request for grants that was issued in January 2023 and then reviewed by a multi-agency review committee. The review committee reviewed projects against the goals and objectives of the TRCC and graded proposed projects for 405c funding based on the following criteria:

Problem Identification

- Local data supports the identified traffic safety problem

- The chosen Countermeasures clearly improves the identified problem
- Describes what is causing the problem

Project Goals

- Goals are realistic toward solving the problem
- Goals relative to the problem ID
- Goals coincide with traffic safety priorities

Project Objectives

- Objectives, targets and performance measures directly address the identified problem
- Objectives are specific, measurable and achievable
- Sufficient time allocated to achieve each objective
- Self-sustainability is addressed

Project Activities

- Demonstrates proven prevention/intervention strategies
- Timelines are adequately addressed and reasonable
- Activities are adequate & tied to objectives

Project Evaluation

- Indicates realistic methods of measuring progress towards each objective
- Indicates realistic method of measuring progress of each activity
- Indicates by whom and when evaluation will be performed
- Includes baseline data to indicate progress

Budget

- Adequate budget detail is provided
- Proposed budget seems realistic for project scope
- Budget includes adequate matching funds and source

Other

- Application proposes coordination w/other agencies

6.2 Traffic Records System Improvement Project Listing

This section outlines the traffic records system improvement projects that are recommended for support. Projects are presented in **Table 2**.

Table 2. Traffic Records Improvement Project Listing

Project Title	Statewide Goal(s)	Lead Agency	Anticipated Funding Source
Enforcement Mobile Working Group	To improve the quality of data within the Crash Data System	OTS	405c
Enforcement Mobile Interface and Equipment	For all agencies in Nevada that issue crashes and citations to effectively use electronic collection and reporting in the Enforcement Mobile (Brazos) system	OTS	405c
Tyler Technologies Enforcement Mobile Software System	For all agencies in Nevada that issue crashes and citations to effectively use electronic collection and reporting in the Enforcement Mobile (Brazos) system	OTS	NDOT
Research to Improve Crash Data Quality with AI Technology	To improve the quality of data within the Crash Data System with the use of artificial intelligence (AI) technology	OTS	405
TRCC Integration	For crash data to be effectively used for data-driven decisions	OTS	405c
Nevada State Health Trauma Registry	To improve access to trauma registry data in coordination with UNLV School of Medicine.	OTS	405c
Research Citation and Adjudication Best Practices	Determine best practices to apply in Nevada to improve the availability and use of citation and adjudication data	NDOT	NDOT
NDOT MIRE Data Improvements	Increase the number of MIRE Fundamental Data Elements in the Roadway Data File	NDOT	NDOT
UNLV STOP Grant	Statistical Transparency of Policing, analyzing race and ethnicity from traffic citations	OTS	1906
UNLV Nevada Road Users Linked Database System	For trauma data to be able to be linked to crash data and analyzed to support safety initiatives	NDOT and UNLV School of Medicine	NDOT

7. Data Quality Management

7.1 Statewide Performance Measures and Metrics

This section outlines the statewide performance measures and metrics that the TRCC will use to monitor data quality improvement projects. Performance measures for tracking proposed projects are presented in **Table 3**.

Table 3. Performance Measures Summary – Under Development and Review

Goal	Objective(s)	Performance Measure(s)	Data Quality	Data System	Baseline Metric	Progress Metric
For all agencies in Nevada that issue crashes and citations to effectively use electronic collection and reporting in the Enforcement Mobile (Brazos) system	Increase the number of agencies using e-crash and/or e-citation	Number of agencies added to e-crash and/or e-citation	Completeness	Crash and Citation/Adjudication	0	1
For all agencies in Nevada that issue crashes and citations to effectively use electronic collection and reporting in the Enforcement Mobile (Brazos) system	Increase the percent of crash records that include race/ethnicity, if arrested, and if searched what was found	Percentage of crash records that include race/ ethnicity	Completeness	Crash and Citation/Adjudication	0	90
To improve the quality of data within the Crash Data System	Improve the uniformity of the Crash Data System	Host training	Uniformity	Crash	0	1
To improve the quality of data within the Crash Data System	Improve the uniformity of the Crash Data System	Complete Research Study	Uniformity	Crash	0	1
For crash data to be effectively used for data-driven decisions	Improve the timeliness of the Crash Data System	Traffic Records Crash Timeliness Median Days	Timeliness	Crash	Greater than 12	4
For crash data to be effectively used for data-driven decisions	Improve the completeness of the geolocation of the crash data	Percentage of geolocated crash data within the Brazos	Completeness	Crash	Less than 80	80
For crash data to be effectively used for data-driven decisions	Improve the completeness of the geolocation of the crash data	Percentage of geolocated crash data within the NCATS	Completeness	Crash	Less than 90	95
For crash data to be able to be analyzed using linked Roadway Data	Increase the number of MIRE Fundamental Data Elements in the Roadway Data File	Percentage of segments with all MIRE FDEs	Completeness	Roadway	80	85
For crash data to be able to be analyzed using linked Roadway Data	Increase the number of MIRE Fundamental Data Elements in the Roadway Data File	Percentage of intersections with all MIRE FDEs	Completeness	Roadway	30	35
For traffic records data to be able to be analyzed to identify the location of risky road user behaviors so preventative measures can be taken	Evaluate the use of new data sources to identify the location of risky road user behavior	Completed Study	Completeness	Roadway	0	1
For trauma data to be able to be linked to crash data and analyzed to support safety initiatives	Increase the linkage of trauma records that are linked to crash records	The percentage of appropriate records in the trauma database that are linked to the crash file	Integration	Injury Surveillance	63	64
To improve the availability and use of citation and adjudication data	Determine best practices to apply in Nevada to improve the availability and use of citation and adjudication data	Completed Study	Completeness	Citation/Adjudication	0	1

8. Commitment to the Strategic Plan

8.1 Traffic Records Strategic Plan Implementation

Nevada is committed to implement the Traffic Records Strategic Plan. The TRCC will monitor, track and evaluate implementation of the plan. The TRCC meets a minimum of quarterly and uses an online action tracking tool accessible by the TRCC Chair, Vice Chair and action leads.