

Emphasis Area #5. Traffic Records Management

Champion: Danielle Murphy (MDT -State Highway Traffic Safety Office)

Objective: Develop and Implement A Comprehensive, Coordinated Transportation Records and Crash Reporting, Data Management, and Analysis System, Accessible To All Stakeholders, to Manage and Evaluate Transportation Safety.

Performance Measures:

- Implementation of specific Comprehensive Highway Safety Plan (CHSP) strategies for traffic records management.
- Implementation of specific strategies contained in Traffic Records Strategic Plan

In early 2009, the MDT-SHTSO asked National Highway Traffic Safety Administration (NHTSA) to facilitate a traffic records assessment. This assessment was conducted with a team of traffic records professionals, covering all data systems comprising Montana's traffic records system. The resulting Traffic Records Assessment report identified an extensive number of recommendations to improve the State's record keeping systems. In order to respond to these recommendations, Montana's Traffic Records Coordinating Committee (TRCC) is updating the Traffic Records Strategic Plan. A number of the strategies contained in this Plan have been incorporated into the CHSP to further facilitate their implementation.

Traffic Records Management

Current Programs and Strategies

Priority – Develop and Implement a Comprehensive, Coordinated Transportation Records and Crash Reporting, Data Management, and Analysis System, Accessible to All Stakeholders, to Manage and Evaluate Transportation Safety

Strat. No.	Current Strategies	Reference Document	Funding Agency	Implementing Agency	Overview of Actions
1.	Montana Traffic Records Strategic Plan (MT-TRSP) Implementation	MT Traffic Records Strategic Plan, Project #002; Traffic Records Assessment (March 2009)	Montana Department of Transportation – State Highway Traffic Safety Office (MDT-SHTSO)	Traffic Records Coordinating Committee (TRCC)	<p>Guiding document for statewide Traffic Records Coordinating Committee (TRCC) (stakeholders of state crash records); purposes of MT-TRSP:</p> <ul style="list-style-type: none"> • Fulfill the requirements of the Montana Traffic Records Assessment (TRA); • Provide Montana state agencies with a common basis for moving ahead with traffic records systems upgrades, integration, and data analysis; and • Provide a basis for Montana’s grant requests to the National Highway Traffic Safety Administration (NHTSA) to receive first-year and successive-year grants under Section 408 (Title 23).
2.	Enhance the Roadway Log with GPS-Based Location Referencing	MT Traffic Records Strategic Plan, Project #013; Traffic Records Assessment (March 2009)	MDT	MDT	<p>Completed in 2010, the location reference system (LRS) is currently off-set and mile marker based. While keeping with these processes, MDT has also migrated to a state place coordinate location referencing system. Over the past six years the MDT captured location coordinates on the 13,000 mile on-system routes as well as the 67,000 miles of off-system routes through the use of GPS devices. During this survey process they also collected on-system photos by photo-inventorying the same sections of on-system highway and tying the images to GPS coordinates. The LRS is very near to being moved to the production environment. MDT is progressing toward making that happen as part of their GPS strategic plan.</p>
3.	Development of E-Ticket Citation System	MT Traffic Records Strategic Plan, Projects #018 & 033; Traffic Records Assessment (March 2009)	MT Department of Justice (DOJ) and Office of Court Administration	DOJ and Office of Court Administration	<p>The development of the e-ticket/electronic citation initiative being undertaken by the Department of Justice through their contractor.</p> <p>As part of the CTS America software suite, the Montana Highway Patrol (MHP) is currently issuing and capturing citation information electronically. Since local law enforcement agencies do not currently have access to the CTS America software suite, they are not using the electronic citation system.</p> <p>The largest piece of this project is developing a mechanism to upload the electronic citation information from the MHP database to the Office of Court Administration’s FullCourt software system and then move those citations to the local courts.</p>

Priority - Develop and Implement a Comprehensive, Coordinated Transportation Records and Crash Reporting, Data Management, and Analysis System, Accessible to All Stakeholders, to Manage and Evaluate Transportation Safety (continued)

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4.	Integrated Justice Information Sharing (IJIS) Broker	MT Traffic Records Strategic Plan, Project 028; Traffic Records Assessment (March 2009)	DOJ	DOJ	To allow the various agencies within the justice system to share information, the Department of Justice (DOJ) is undertaking an innovative information technology project called the IJIS (Integrated Justice Information Sharing) broker. While our courts, jails and prisons, local police and sheriffs' offices, state and Federal law enforcement agencies and Motor Vehicle Division all keep records, the various systems cannot "talk" to one another. Because the information is stored in many different formats and on technology platforms that are incompatible, it is difficult or impossible to share information with others in the system. The IJIS broker is vital to public safety because it creates the exchanges that allow a wide range of agencies to share real-time information quickly, securely and accurately.
5.	Online Pre-Hospital Information System	MT Traffic Records Strategic Plan, Project 029; Traffic Records Assessment (March 2009)	Dept of Public Health and Human Services(DPHHS)	EMS&TS, DPHHS	Completed in 2010, the Online Pre-Hospital Information System is web-based, pre-hospital data software which will enable comprehensive data collection about pre-hospital care. The EMS & Trauma Systems (EMS&TS) deploys their Online Pre-Hospital Information System (OPHI) across Montana. This will be the first time that the EMS data will be collected uniformly at all levels in Montana. This project includes the ability for other State agencies to access the data in the OPHI to support data-driven operational decisions and performance measures. Initially, ten standard reports have been developed with additional reports to be determined as time and funding allow.
6.	FullCourt	MT Traffic Records Strategic Plan, Project 030; Traffic Records Assessment (March 2009)	DOJ - Office of Court Administration	DOJ - Office of Court Administration	FullCourt was implemented in 2009, as a commercial-off-the-shelf court case management system developed by Justice Systems Inc. FullCourt is used by Montana's courts of limited jurisdiction and district courts. In addition, the Office of the Court Administrator maintains a central court repository (CCR) for FullCourt users. The CCR is used for catastrophic disaster recovery, electronic reporting, and for statistical purposes.

Priority - Develop and Implement a Comprehensive, Coordinated Transportation Records and Crash Reporting, Data Management, and Analysis System, Accessible to All Stakeholders, to Manage and Evaluate Transportation Safety (continued)

Strat. No.	Current Strategies	Reference Document	Funding Agency	Implementing Agency	Overview of Actions
7.	CTS America Crash System	MT Traffic Records Strategic Plan, Project #032; Traffic Records Assessment (March 2009)	DOJ, MDT	DOJ	<p>CTS America Crash System: Completed 2010.</p> <p>The Montana Highway Patrol (MHP) purchased software for their in-car computer which is a computer aided dispatch/records management system. The CTS America System tracks all activities, stops, etc. and was installed during May and June of 2008. MHP decided to utilize the crash component of the CTS America System and have discontinued use of the old MARS (Montana Accident Reporting System) crash database. The CTS America System will improve Model Minimum Uniform Crash Criteria (MMUCC) compliance and provide quicker crash data entry into the state database since records will be moved electronically. The system also records GPS coordinates for all activities through the computers installed in the MHP vehicles.</p>
8.	Web-Based Crash Reporting	MT Traffic Records Strategic Plan, Project #034; Traffic Records Assessment (March 2009)	DOJ; MDT	DOJ	<p>The Montana Highway Patrol (MHP) is working towards implementing a statewide, web-based crash reporting program for all law enforcement agencies to report crash data. The program is currently in use by all Montana Highway Patrol Troopers. It is designed and maintained by CTS America and Montana's Department of Justice Information Technology Division. This program will be available for use by all crash reporting law enforcement agencies in the state with the goal of uniform crash reporting. The program can be accessed via the world wide web by any computer that is connected to the internet that is allowed CTS America access. All law enforcement agencies will be able to report traffic crashes on a standardized crash report and transmit data to a centralized server for data processing.</p> <p>The standardized data will be available to a number of state departments to aid in tracking various types of crash data, adjusting enforcement, and public education and awareness. The collected data is compliant with the Model Minimum Uniform Crash Code (MMUCC) according to Federal standards. Once implemented, Montana will be the first state in the nation that will be 100% compliant in reporting crashes under the latest MMUCC guidelines.</p>
9.	Complete Traffic Records Projects	MT Traffic Records Strategic Plan	MDT	MDT	<p>Completed projects from the Traffic Records Strategic Plan continue the process of improving Montana's traffic records system. Projects include:</p> <ul style="list-style-type: none"> National Review of Best Practices Related to Safety Analysis Systems (#023) Montana Safety Analysis System Design (#024) Montana Safety Analysis System Development(#025)

Traffic Records Management

New Strategies

Traffic Records Management – New Strategies

CHAMPION: Danielle Murphy dmurphy@mt.gov (406) 444-3430	Sponsoring Agency	Agency Contact	Implementation Approach – Action Steps	Coordination/ Outreach Efforts	Funding Approach/ Needs/Sources	Implementation Oversight	Evaluation/ Assessment Procedure
Develop and implement a comprehensive, coordinated transportation records and crash reporting, data management, and analysis system, accessible to all stakeholders, to manage and evaluate transportation safety	Implementation Team: Danielle Murphy and the Traffic Records Coordinating Committee (TRCC) members. TRCC member organizations: MDT: Information Services Division, MDT: Safety Management Services, MDT: Motor Carrier Services, MDT: SHTSO, MDT: Planning, DOJ: Motor Vehicle Division, DOJ: MT Highway Patrol, DPHHS: Emergency Medical Services, Office of Court Administration, FHWA, NHTSA.						
TR-1 Implement Action Plan in Traffic Records Strategic Plan (TRCC) Bring together the stakeholders of traffic safety to identify deficiencies, and upgrade and integrate the data systems used to conduct highway safety analyses. These data systems include crash records, roadway data, driver information, injury tracking information and conviction and disposition data, as well as tribal data. Traffic Records Strategic Project (#002).	Montana Department of Transportation (MDT) – State Highway Traffic Safety Office (SHTSO)	SHTSO-Operations Research Analyst	<ol style="list-style-type: none"> 1. Submit grant application on an annual basis gaining support from involved agencies. 2. Facilitate and ensure that the policy and funding support necessary are available to implement Traffic Records Strategic Plan by due dates of grants. 3. Implement projects within the Traffic Records Strategic Plan by priority determined by the Traffic Records Coordinating Committee. 	MDT – Information Services Division (ISD), Safety Management Section (SMS), Motor Carrier Services (MCS), Planning Division; Department of Justice (DOJ) – Motor Vehicle Division (MVD) and Montana Highway Patrol (MHP); Department of Public Health and Human Services (DPHHS); Office of Court Administration (OCA); Local Law Enforcement; Local Courts; and Tribes.	National Highway Traffic Safety Administration (NHTSA) Traffic Records Grant	SHTSO Officer	<ol style="list-style-type: none"> 1-2. Grants Received. 3. Showing improvements in traffic records performance measures, as defined in the Traffic Records Strategic Plan.
TR-2 Electronic Crash Data Capture Implement MHP electronic crash database at the local level so that it can receive electronic submission of crash reports. MHP will offer method to local law enforcement for submitting crash reports. Traffic Records Strategic Project #034.	Department of Justice (DOJ) – Montana Highway Patrol (MHP)	MHP – Operations Commander	<ol style="list-style-type: none"> 1. An initial program will be established by MHP. 2. MHP will provide training. 3. Negotiations will begin with the largest police departments. A goal of 85% electronic data capture will be expected by 2013. 4. Ultimately, MHP will take over the program and provide maintenance since all of their personnel will be trained and out in the field. 	DOJ-MHP; local law enforcement; MDT-SMS and SHTSO.	MHP funding and NHTSA Traffic Records Grant	MHP Chief and Operations Commander	Progress on implementing objectives and the percentage of crashes received electronically.

Traffic Records Management – New Strategies (continued)

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TR-3 Tribal Data Sharing Keep working with the tribes to get 100% agreements in place to share crash data (without personal identifiers if need be). Crash data collection and data sharing can help provide access to funding for road improvements, enforcement and education countermeasure support, and EMS deployment. Traffic Records Strategic Project (#017).	MDT-SMS; MDT-SHTSO; DOJ-MHP		<ol style="list-style-type: none"> 1. Establish data sharing agreements with all reservations. 2. In 3-5 years (2016), if all tribal requirements can be met, pursue data sharing via the same web-based program used by all other law enforcement agencies in the state. 	DOJ-MHP; MDT-SMS and SHTSO; FHWA; Tribal Law Enforcement		MDT-Planning/ SHTSO/Traffic & Safety Engineering	Show progress being made on the number of Reservations submitting crash data to MHP and the development of software to interface into the MHP Crash system database.
TR-4 Safety Information Management System Development Creating an enhanced Safety Information Management System (SIMS) that extends the current Safety Management System features by accepting data from additional sources beyond crash, roadway inventory, and traffic. Traffic Records Strategic Project (#036).	MDT-SMS		<ol style="list-style-type: none"> 1. MDT will develop a traffic safety web-based services broker that will collect traffic safety information from other state agencies. 2. MDT will secure funding and develop the new SIMS, possibly in incremental steps, to include the following functionality: <ul style="list-style-type: none"> - Periodic data updates from other state agencies; - Web-based access; - Additional forms of data analysis; - Quality control procedures; - Ability for all suppliers of data to access system and perform analyses; - Ability for local governments to have access to non-sensitive data; - Ability for citizens to perform high-level cross tabulations; - Interface with various analysis packages; - DUI tracking capability; - Interface with other traffic safety databases; and - Graphical displays of crashes. 	MDT-ISD, SMS, SHTSO, MCS, Planning; DOJ-MVD, MHP; DPHHS; OCA	MDT-Traffic and Safety Engineering; NHTSA Traffic Records		MDT broker communicating with other state agencies. Securing funding. Complete functionality of SIMS, based on incremental development timeline.

Traffic Records Management – New Strategies (continued)

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TR-5 Model Inventory of Roadway Elements Develop and maintain a comprehensive roadway geometrics database for Montana highways. Traffic Records Strategic Project #035.	MDT - Planning, Traffic & Safety Engineering	MDT - Data & Statistics Bureau Chief or Safety Management System Supervisor	<ol style="list-style-type: none"> 1. Form committee to work on project. 2. Research existing and desired data items, including need and justification. 3. Assess necessary efforts and costs of data items. 4. Develop proposed plan. 5. Seek approval to move forward with changes. 	MDT-Planning, SMS, Road Design, Consultant Design, ISD, Environmental Services, Maintenance; DOJ - MHP; NHTSA; FHWA	MDT-Planning. Possibly from other MDT work units.	MDT-Data & Statistics Bureau Chief & Safety Management System Supervisor	Complete plan for expanding roadway geometrics database. Securing approval to make changes to the database. Complete functionality of upgraded database.