



STATE TRAFFIC RECORDS ADVISORY COMMITTEE

2014 Report



COLORADO
Department of Transportation
Transportation Systems
Management & Operations



COLORADO
Department of Revenue



COLORADO
Department of Public Safety



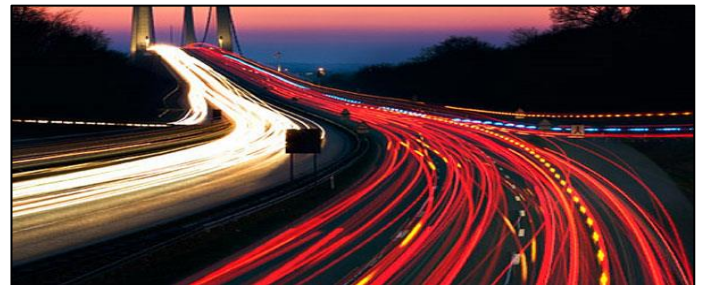
COLORADO
Office of Behavioral Health
Department of Human Services



COLORADO
Governor's Office of
Information Technology



COLORADO
Department of Public
Health & Environment



Prepared by Major Barry Bratt

Colorado Department of Public Safety
Colorado State Patrol

STRAC - Chairperson

INDEX

Mission Statement	Page Three
Vision Statement	Page Three
Executive Summary	Page Three
STRAC Responsibilities	Page Four
STRAC Accomplishments	Page Four
STRAC Projects	Page Eight
2015 Grant Projects	Page Ten
2014 Grant Projects	Page Fourteen
2013 Grant Projects	Page Twenty
STRAC Strategic Plan Summary	Page Twenty Six
STRAC Membership	Page Thirty One

State Traffic Records Advisory Committee 2014 Annual Report

Statewide Traffic Records Advisory Committee Report May, 2013 - June 15, 2014

Mission Statement:

Our mission of the State Traffic Records Advisory Committee is to coordinate and facilitate the interagency acquisition and disbursement of accurate, timely and accessible traffic and outcome data for use in identifying and solving motor vehicle and roadway safety problems in a user friendly environment.

Vision Statement:

Our vision is a seamless traffic data system delivering complete, timely, and accurate data from event to outcome for use by every data consumer involved in making traffic safety decisions.

Executive Summary:

This report summarizes the activities of The Colorado Statewide Traffic Records Advisory Committee (STRAC) for fiscal year 2013 and 2014 to date. In doing so, it identifies the responsibilities of the committee, successes, challenges, grant money distributed, and the direction the committee intends to head in the year ahead.

The STRAC committee was formed as part of a federally sponsored effort to improve traffic records. STRAC is charged with overseeing the development, implementation, and management of a strategic plan for the improvement of state traffic records. Through a memorandum of understanding, seven state agencies have agreed to implement the STRAC strategic plan in order to develop a comprehensive integrated traffic records system which is accurate, complete, timely, and accessible.

In 2013, STRAC provided oversight on the distribution of \$618,109 in federal funds intended to improve traffic records. In 2014, STRAC again provided oversight on an additional \$581,182 in funds. For 2015, STRAC has approved \$626,219 to date in funds.

The result of these expenditures has been:

- An increase in agencies reporting crashes electronically to the Department of Revenue
 - 30% of accident reports submitted to DOR are now submitted electronically.
 - 77% of agencies are now completing electronic crash reports.
 - These electronic crash reports are estimated to cover 85% of all crashes reported.
- An increase in the number of agencies completing citations electronically
- Improved off system crash data

State Traffic Records Advisory Committee 2014 Annual Report

STRAC Responsibilities:

- Develop and oversee the long range planning efforts of the traffic records system
- Review potential changes to traffic records systems and highway safety data before changes are implemented
- Consider and coordinate the views of organizations in the State that are involved in the administration, collection and use of traffic records systems and highway safety data
- Represent the interests of agencies and organizations within the traffic records system to outside organizations
- Review and evaluate new technologies and keep the traffic records system and highway safety data up to date
- Investigate the possibilities of linking traffic records systems
- Provide recommendations to their respective departments, divisions and agencies on the collection, management, and enhancement of statewide traffic records system
- Provide a forum for discussion and reporting of highway safety data and traffic records issues to agencies and organizations in the State that create, maintain and use traffic records and highway safety data
- Review national initiatives and best practices of other states
- Provide education to law enforcement officers in an endeavor to enhance the quality of traffic accident reporting.

The Annual Implementation or Action Plan:

On an annual basis, STRAC will evaluate projects authorized for 405C funding, and will continue to encourage those projects that serve the key goals and objectives of the Strategic Plan. STRAC will review the status and progress towards the key strategic goals and objectives, will report to executive management, and will revise the Strategic Plan for Traffic Records, as needed, to meet the changing technologies and demands of the Traffic Records environment.

STRAC Accomplishments:

Grant Management:

The STRAC oversees the solicitation, application, review, approval, and recommendation of National Highway Traffic Safety Administration (NHTSA) grant projects to improve traffic records. In past years, a request for project applications (405C) was sent to every police department, all STRAC members, and passed on to any appropriate associates. This process resulted in 11 projects worth \$681k in FFY2013 and 12 projects worth \$581k in FFY2014.

State Traffic Records Advisory Committee 2014 Annual Report

Colorado used two Crash/Timeliness performance measures to show improvement to the NHTSA, thus securing funding for another year.

Crash Records Data Collection:

DOR continued to enter crash records information into the Electronic Accident Report System (EARS) database and the Electronic Document Warehouse (EDW) (DOR). CDOT continues to monitor efforts by staff and temporary employees to provide cleansing and location coding to crash data which improves the accuracy and completeness of crash data for safety analyses (CDOT database).

The NHTSA assesses Colorado's traffic record data quality by measuring how quickly Colorado accident reports are available electronically, and by measuring the accuracy and completeness of the accident reports. Colorado's goal for processing an accident report has been 7 days from crash to entry into the EARS or EDW systems. The State consistently struggled to meet that goal, often taking 12 days before an accident report was available electronically. With increased electronic data collection and increased electronic submission of crash records to DOR, the State is now processing accidents within 6 days, thereby exceeding the State's goal.

The team responsible for ensuring accident report timeliness and accuracy are now focusing on data quality through enhanced accuracy. While crash data accuracy can be improved at collection, it still must be reviewed for accuracy, processed, and readied for use by the user community. Going into 2012, processed accurate crash data was over a year old. Since 2012, the delay in accurate crash data has been reduced to only four months. To accomplish this, CDOT reviews 51 data fields per crash and routinely makes corrections or additions to 98% of crash records. Of these changes, 34% are enhancements done for CDOT's benefit, 30% are corrections and 36% are blank fields filled in. The most common changes are the crash type description and crash location, both critical elements to conducting data analysis and making program resource distribution decisions.

Task Force on Statewide Crash Data Base:

A group of STRAC members and partners meet to begin the initial planning process for the development of a statewide crash data base. The next step is the hiring of a TRC to move this project forward.

Higher Education Partnership:

CDOT strengthened ties with Metro State University (MSU) by undertaking several cooperative projects. MSU is currently assisting CDOT on the Crash Book display project, with 2 more projects planned for 2014 – 2015.

E-Citation Program:

The E-Citation projects are progressing throughout the state. This will ensure that DOR and the Courts can communicate electronically with all law enforcement agencies utilizing e-citation systems. While E-Citations are a core element in improving officer safety by decreasing exposure time on our roads, by moving to electronic entry we reduce the number of times data has to be entered manually improving accuracy, completeness, and timeliness of this important traffic record.

State Traffic Records Advisory Committee 2014 Annual Report

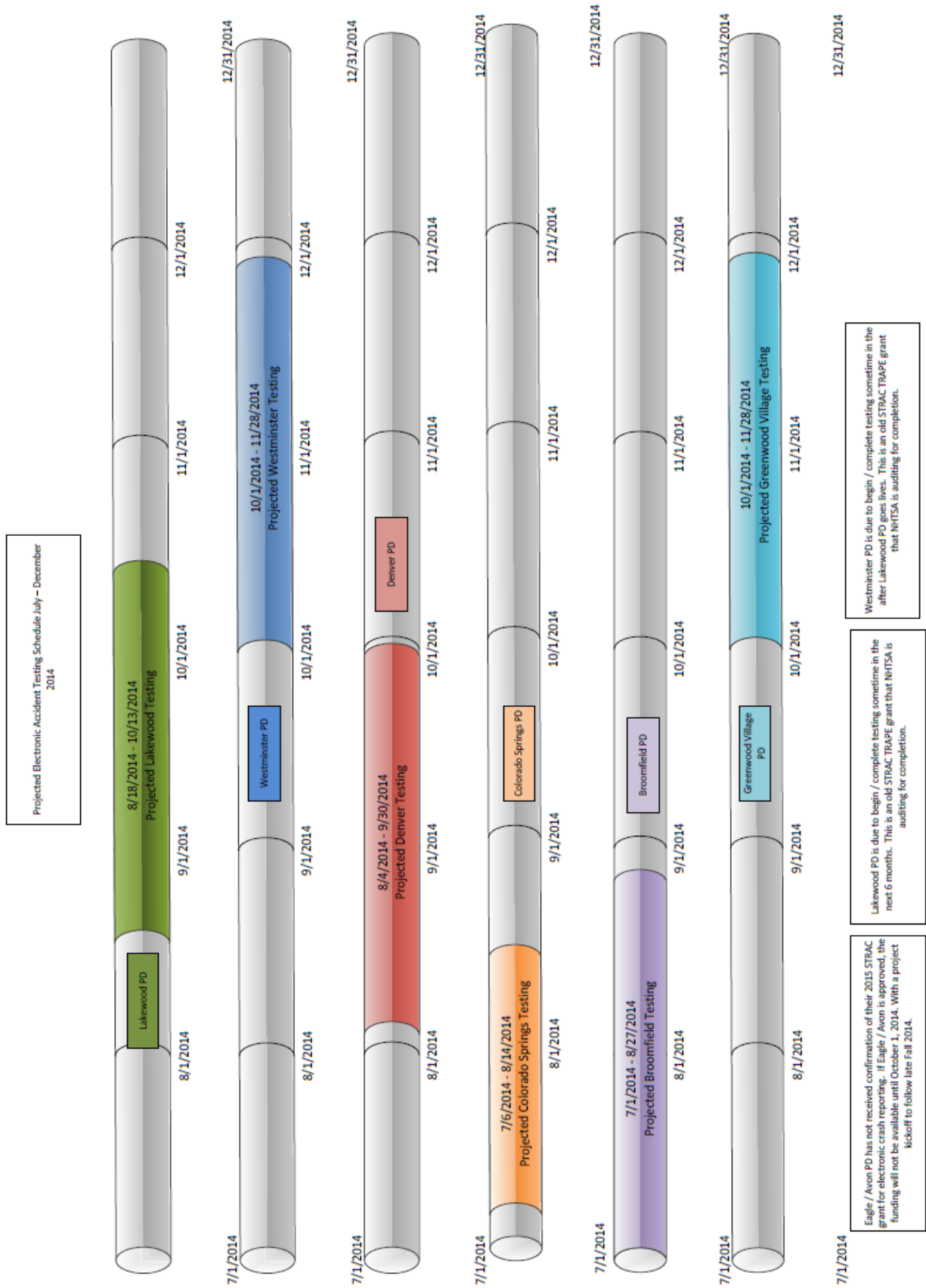
E-Crash Program:

All of the top 15 agencies, as determined by the percentage of reports, are now completing reports electronically. This accounts for over 77% of all crash reports completed in the state. Of those, currently the Colorado State Patrol, the Aurora Police Department and the Longmont Police department are submitting electronic crash reports to the Department of Revenue. These three agencies equal 30% of the total reports submitted. An additional seven agencies will be submitting electronic crash reports yet this year or in 2015. When those agencies come on line, approximately 64% of all crash reports will be submitted electronically.

The following chart reflects the success of the E-Crash program as of July 2014.

Agency Name	# of Crashes Reported in 2012	% of Total Crashes Reported in 2012	Status of E-Crash Program
Colorado State Patrol	24,605	24.208%	Currently sending reports electronically
Denver Police Department	17,068	16.792%	In Testing Phase, scheduled to submit in 2014
Colorado Springs Police Department	8,171	8.039%	Grant approved, testing to start in 2015
Aurora Police Department	5,719	5.627%	Currently sending reports electronically
Lakewood Police Department	3,511	3.454%	In Testing Phase, scheduled to submit in 2014
Ft. Collins Police Department	3,144	3.093%	The department is internally completing electronic crash reports. STRAC is working towards electronic submission to DOR
Pueblo Police Department	2,834	2.788%	The department is internally completing electronic crash reports. STRAC is working towards electronic submission to DOR
Westminster Police Department	2,013	1.980%	In Testing Phase, scheduled to submit in 2014
Thornton Police Department	1,850	1.820%	The department is internally completing electronic crash reports. STRAC is working towards electronic submission to DOR
Greeley Police Department	1,836	1.806%	The department is internally completing electronic crash reports. STRAC is working towards electronic submission to DOR
Boulder Police Department	1,812	1.783	The department is internally completing electronic crash reports. STRAC is working towards electronic submission to DOR
Arvada Police Department	1,710	1.682	The department is internally completing electronic crash reports. STRAC is working towards electronic submission to DOR
Longmont Police Department	1,622	1.596%	Currently sending reports electronically
Arapahoe Sheriff's Department	1,574	1.549%	The department is internally completing 67% of their crash reports electronically.
Grand Junction Police	1,572	1.547%	The department is internally completing electronic crash reports. STRAC is working towards electronic submission to DOR
Broomfield Police Department	1,179	1.160%	Grant approved, testing to start in 2015
Greenwood Village Police Department	927	.912%	In Testing Phase, scheduled to submit in 2014
Eagle County	400	.650%	Grant approved, testing to start in 2015

State Traffic Records Advisory Committee 2014 Annual Report



State Traffic Records Advisory Committee 2014 Annual Report

Traffic Records Forum:

STRAC continues to send representatives to the Traffic Records Forum utilizing a variety of funding sources.

State Judicial:

State Judicial, due to the number of projects on their plate, had to take a brief break from active participation in STRAC. They have now been able to return and will be a valuable partner as STRAC moves forward in promoting and developing E-citation programs around the state.

State Highway Safety Plan:

STRAC assisted in the development of the State Highway Safety Plan by leading the data collection group and working with the other group to identify future data needs.

STRAC Projects:

Traffic records reflect a multitude of different type of documents to include citations, crash reports, and EMS trip reports. These reports come from multiple reporting agencies and reside in multiple databases making data retrieval and sharing difficult. For example, the State of Colorado produces over 100,000 accident reports each year from 232 separate Law Enforcement agencies. The data from these reports are officially stored at the Colorado Department of Revenue's Motor Vehicle Division, and then extracted to the Colorado Department of Transportation for data processing and improvement, analysis, and sharing among the many federal, state, and local agencies and stakeholders responsible for improving safety on Colorado's transportation network.

STRAC guides Colorado agencies on the use of NHTSA grant funding to improve the collection, storing, linking, and sharing of this data through grant-awarded projects. Below are key future projects as well as a listing of past years projects and accomplishments.

Colorado Crash Data Users' Database Vision and Roadmap: In order to makes Colorado's traffic records databases more integrated and accessible, a number of related databases must be connected and then shared with the many users in varying capacities. This project will define this vision and outline tasks, projects and a schedule to reach this vision.

Statewide Traffic Records Database: A proposal is underway to create a statewide data sharing system. This system will link all major Traffic Records (TR) stakeholders and combine their data for more universal use. This project is still in the conception stage and if developed will involve several projects over several years.

Traffic Records Assessment: The 5 year NHTSA Traffic Assessment is underway, with a new, on-line format. The pre-assessment questions have been sent out to the respective agencies and will be compiled and reviewed in October. The actual Assessment begins January, 2015 and should conclude at the end of March.

Electronic Reporting of Crash Data: STRAC is working to add all communities that capture their crash reports electronically, to electronically submit them to the Department of Revenue. This is estimated at over 85% of the statewide crashes.

State Traffic Records Advisory Committee 2014 Annual Report

Traffic Records Coordinator (TRC): Currently all STRAC members have other full time responsibilities that limit the amount of time that can be devoted to traffic records projects. This coordinator will provide us with a full-time, dedicated; individual that would be able to work on traffic records initiatives between STRAC meetings, coordinating with STRAC member agencies and other partners to rapidly accelerate our progress.

Traffic Record Automated Process & Export (TRAPE):

TRAPE is an application designed to allow agencies with a current data repository of accident records to electronically upload those records to MVD. TRAPE was originally designed to integrate with the "I/Leads" software sold by Intergraph. However, it is able, with few modifications, to accept any reasonably formatted input that contains accident record information.

TRAPE consists of four separate applications and a database. Three of these applications are integrated. The fourth is a modifiable portion that can be used by an LEA to provide electronic information to TRAPE.

New Accident/Crash Report:

In the coming year, STRAC will be working with our partners to develop, present, and implement an updated crash report that is in line with new technology and concerns to improve traffic safety. IT is anticipated this new report will implemented in 2016.

State Traffic Records Advisory Committee 2014 Annual Report

Projects Approved 2015 (October 2014 – September 2015)

Total Money allocated: \$626,219
Total Money Spent: To Be Determined

Loveland Police Department

Project Name: E-Citation System
Grant Amount: \$31,266
Actual Amount Spent: \$ TBD
Performance Measure: Improved Citation Accuracy



Project: The Loveland Police Department requested and received a grant to implement an E-Citation system within the agency. As State Judicial is not ready to accept electronic citations, the proposed system will be developed to send completed citations to the municipal courts.

Conditions: The project must be designed to match the State Judicial schema so that when Judicial is ready, the ability to send citations to them is in place.

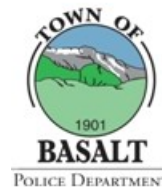
Progress/Results: This project was recently approved and is pending implementation.

Eagle County Law Enforcement

Project Name: E-Citation System
Grant Amount: \$151,840
Actual Amount Spent: \$ TBD
Performance Measure: Improved Citation Accuracy
Improved Citation Completeness
Improved Citation Uniformity
Improved Citation Timeliness



Project: This was a joint project submitted by the four municipal police departments and the sheriff's office to implement an E-Citation system among all the agencies. As State Judicial is not ready to accept electronic citations, the proposed system will be developed to send completed citations to the municipal courts.



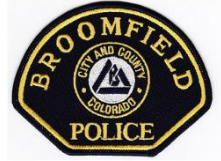
Conditions: The project must be designed to match the State Judicial schema so that when Judicial is ready, the ability to send citations to them is in place.

Progress/Results: This project was recently approved and is pending implementation.

State Traffic Records Advisory Committee 2014 Annual Report

Broomfield Police Department

Project Name: E-Crash Submission
Grant Amount: \$26,622
Actual Amount Spent: \$ TBD
Performance Measure: Improved Crash Accuracy
Improved Crash Timeliness



Project: The Broomfield Police requested and received a grant to implement an E-Crash collection and submission project. This will allow not only the completion of electronic crash reports, but also the electronic submission of these reports to DOR.

Progress/Results: This project was recently approved and is pending implementation.

Wheat Ridge Police Department

Project Name: E-Citation System
Grant Amount: \$19,912
Actual Amount Spent: \$ TBD
Performance Measure: Improved Citation Accuracy
Improved Citation Timeliness



Project: The Wheat Ridge Police Department requested and received a grant to implement an E-Citation system within the agency. As State Judicial is not ready to accept electronic citations, the proposed system will be developed to send completed citations to the municipal courts.

Conditions: The project must be designed to match the State Judicial schema so that when Judicial is ready, the ability to send citations to them is in place.

Progress/Results: This project was recently approved and is pending implementation.

Colorado Department of Transportation

Project Name: Traffic Records Forum Conference
Grant Amount: \$10,000
Actual Amount Spent: \$ TBD
Performance Measure: N/A



Project: The STRAC will again send members to the Annual Traffic Records Forum to attend seminars and breakout sessions in traffic records management.

Progress/Results: Members will attend this conference in October of 2014.

State Traffic Records Advisory Committee 2014 Annual Report

Colorado Department of Transportation

Project Name: Data Integration and Fox Pro Transition 14-04-01-15
Grant Amount: \$57,250
Actual Amount Spent: \$ TBD
Performance Measure: Improved Crash Accuracy
Improved Crash Integration
Improved Crash Completeness



Project: This project is three-fold, incorporating correction of data, designing of new functionality and transitioning of all CDOT Applications (Edit Checks) from FoxPro Applications to Oracle. To do this, four items will prepare CDOT's database for future transitions: adaptation to changes in the CDOR data structure, expanding CDOT's summary data to include additional fields currently in EARS, management and maintenance of applications (including deliverables of CDOTEARS user guide and technical documentation) and reengineering the existing FoxPro applications.

Progress/Results: Project to begin in 2015.

Colorado Department of Transportation

Project Name: Off-System Crash Coding 14-04-41-16
Grant Amount: \$79,329
Actual Amount Spent: \$ TBD
Performance Measure: Improved Crash Accuracy



Project: This was a joint program Metropolitan State University and CDOT to create a process that the CDOT Traffic and Safety staff can use to geocode off-system crash data. The envisioned geocoding process will utilize the crash location attributes to programmatically generate, locate, and assign accurate latitude/longitude coordinates to each crash record. Along with the development of the geocoding process, five years (2008-12) of off-system crash data will be geocoded as part of this project. The process uses the integrated geo-processing framework and the intuitive and self-documenting Model Builder interface embedded in ESRI's ArcGIS desktop software.

Progress/Results: Project to begin in 2015.

Colorado Department of Transportation

Project Name: Full-time Traffic Records Coordinator
Grant Amount: \$ 120,000
Actual Amount Spent: \$ TBD
Performance Measure: TBD



Project: CDOT & STRAC will hire a full-time, dedicated Traffic Records Coordinator (TRC) whose job description is to improve statewide traffic records.

Progress/Results: Coordinator to be hired as soon as possible.

State Traffic Records Advisory Committee 2014 Annual Report

Colorado Department of Transportation

Project Name: FARS Program Support
Grant Amount: \$10,000
Actual Amount Spent: \$ TBD
Performance Measure: NA



Project: Supports the ongoing cooperative agreement with NHTSA/NCSA for Colorado to provide an overall measure of highway safety using fatal crash data.

Progress/Results: On Going

Colorado Department of Transportation

Project Name: Traffic Records Support
Grant Amount: \$120,000
Actual Amount Spent: \$ TBD
Performance Measure: N/A



Project: Supports the statewide goals and objectives through review of the 2015 Traffic Records Assessment Report and project as identified in that report.

Progress/Results: Ongoing

State Traffic Records Advisory Committee 2014 Annual Report

Projects Approved 2014 (October 2013 – September 2014)

Total Money allocated: \$581,182
Total Money Spent: To Be Determined

Greenwood Village Police Department

Project Name: E-Crash Submission 14-04-41-08
Grant Amount: \$42,750
Actual Amount Spent: \$ TBD
Performance Measure: Improved Crash Timeliness
Improved Crash Accuracy



Project: The Greenwood Village Police Department requested and received a grant to implement an E-Crash collection and submission project. This will allow not only the completion of electronic crash reports, but also the electronic submission of these reports to DOR.

Additional Info: This system integrates with the E-Citation system that Greenwood Village already has in place.

Progress/Results: On Track
Project expected to be completed by September 30, 2014.

Aurora Police Department

Project Name: E-Citation System 14-04-41-03
Grant Amount: \$66,420
Actual Amount Spent: \$ TBD
Performance Measure: Improved Citation Accuracy
Improved Citation Timeliness



Project: The Aurora Police Department requested and received a grant to implement an E-Citation system within the agency. As State Judicial is not ready to accept electronic citations, the proposed system will be developed to send completed citations to the municipal courts.

Conditions: The project must be designed to match the State Judicial schema so that when Judicial is ready, the ability to send citations to them is in place.

Progress/Results: On Track
Request for proposal completed, finalized vendor proposal, and received approval from the Aurora City Council.

State Traffic Records Advisory Committee 2014 Annual Report

Aurora Police Department

Project Name: E-Crash Submission 14-04-41-13
Grant Amount: \$10,330
Actual Amount Spent: \$2,821
Performance Measure: Improved Crash Accuracy
Improved Crash Timeliness



Project: The Aurora Police Department requested and received a grant to implement an E-Crash collection and submission project. This will allow not only the completion of electronic crash reports, but also the electronic submission of this reports to DOR.

Progress/Results: Completed Early

This project was completed under budget by \$7,508.58 and almost 6 months ahead of schedule. Because the project was ahead of schedule and things were operating satisfactorily, the D.O.R. requested that the system go live on April 8, 2014. This program was completed and the e- transfer of crash data is continuing without further issues.

Colorado Department of Public Health and Environment

Project Name: EMS Trauma Registry System 14-04-41-05
Grant Amount: \$95,938
Actual Amount Spent: \$ TBD
Performance Measure: Improved EMS Timeliness
Improved EMS Accuracy
Improved EMS Completeness



Project: The CDPHE requested and received a grant to develop and maintain a comprehensive EMS and Trauma Registries at the CDPHE which can be used to contribute health information to the CDOT Traffic Safety Integrated Data Base and to improve the infrastructure and CPHE for maintenance and growth of the registries.

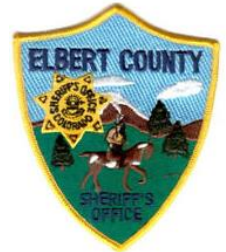
Progress/Results: On-Going

Health and Safety Data Services (HSD) staff continues to work with EMS agencies using third party vendor software to establish an Administrative Web access. CDPHE have assisted agencies in connecting directly with ImageTrend for delivery of webinar trainings on system administration and use of the State Bridge, Field Bridge and Report Writer applications. The HSD EMS Data Coordinator continues to monitor the download of EMS data each month. A RETAC Coordinator Users hosted a successful workshop for Image Trend Report Writer on 3/26/14. The HSD EMS Data Coordinator and other EMTS staff have reviewed the code lists used by EMS agencies and mapped non-standard values to match both the ImageTrend code lists and the standard code list from NEMSIS. HSD staff is participating in NHTSA's Quality Review of EMS Performance Measure Data Project by providing performance measure reports and requested data.

State Traffic Records Advisory Committee 2014 Annual Report

Elbert County Sheriff's Office

Project Name: E-Citation System 14-0441-07
Grant Amount: \$35,188
Actual Amount Spent: \$ TBD
Performance Measure: Improved Citation Timeliness



Project: The Elbert County Sheriff's Office requested and received a grant to implement an E-Citation system within the agency.

Conditions: The project must be designed to match the State Judicial schema so that when Judicial is ready, the ability to send citations to them is in place.

Progress/Results: Experiencing Challenges

The system went live May 21st but with a product that was not fully developed. The hand held devices work, but the use of them is limited to the traffic division thus far. The data that feeds into the RMS system is not yet fully developed. Some of the information doesn't populate correctly, or at all. Elbert County has experienced significant challenges with the project management from the selected vendor, Brazos. Currently the electronic citations can only go to the RMS system then must be printed to paper and relayed to the county courts.

Jefferson County

Project Name: Off System Crash Correction 14-04-41-09
Grant Amount: \$15,188
Actual Amount Spent: \$ TBD
Performance Measure: Improved Crash Accuracy



Project: Jefferson County requested and was approved for funds to review and evaluate all off system crashes that occurred in the county from 2008 to 2012 to identify the crash location and update the reports to included latitude/longitude fields. These corrected reports will then be uploaded to EARS and CDOT.

Progress/Results: Completed

The contractor reports cleansing 2008-2011 crash records and has coordinated these changes with CDOT. 1,787 records were corrected of 20,674 crashes in 2010 & 11 for 12 fields, including crash location and accident type.

State Traffic Records Advisory Committee 2014 Annual Report

Colorado Department of Transportation

Project Name: FARS Program Support 14-04-41-12
Grant Amount: \$10,000
Actual Amount Spent: \$ TBD
Performance Measure: Improved Timeliness



Project: Supports the ongoing cooperative agreement with NHTSA/NCSA for Colorado to provide an overall measure of highway safety using fatal crash data.

Progress/Results: Audited by NHTSA on 02/26/2014 without any problems and/or findings.

Colorado Department of Transportation

Project Name: Tech Support Traffic Records Forum 14-04-41-11
Grant Amount: \$5,000
Actual Amount Spent: \$4,695
Performance Measure: N/A



Project: Fund the attendance of core STRAC team Members at the Traffic Record Forum.

Progress/Results: Completed

This grant sent 3 core STRAC members to Minn. for the 2013 -TR Forum. Oct 27 - 30. See Forum report for details.

Castle Rock Police Department

Project Name: E-Citations 14-04-41-04
Grant Amount: \$89,897
Actual Amount Spent: \$ TBD
Performance Measure: Improved Citation Accuracy



Project: The Castle Rock Police Department requested and received a grant to implement an E-Citation system within the agency. As State Judicial is not ready to accept electronic citations, the proposed system will be developed to send completed citations to the municipal courts.

Conditions: The project must be designed to match the State Judicial schema so that when Judicial is ready, the ability to send citations to them is in place.

Progress/Results: On Track

Castle Rock has been working with Brazos to build interface for software and are waiting for completion of the interface now that all components have been submitted to Brazos. On June 4, 2014, the remaining hardware was ordered (hand-held units, printers, batteries, cabling, etc.). The Police Department and members of Information Technology have weekly meetings to discuss the progress and to stay in constant contact with the Brazos project manager.

State Traffic Records Advisory Committee 2014 Annual Report

Denver Police Department

Project Name: E-Crash Submission 14-04-41-08
Grant Amount: \$58,470
Actual Amount Spent: \$ TBD
Performance Measure: Improved Crash Timeliness



Project: The Denver Police Department requested and received a grant to implement an E-Crash collection and submission project. This will allow not only the completion of electronic crash reports, but also the electronic submission of this reports to DOR.

Progress/Results: On Track

The costs have been approved by the city and funds have been encumbered. The contractor Versaterm worked on the electronic accident report and core submittal data. The software was delivered the last week of June. Work began to test and document the software. Testing will continue through the month of July. Pilot testing scheduled for August. Meeting the deadline for the grant is expected.

Colorado Springs Police Department

Project Name: E-Crash Submission 14-04-41-14
Grant Amount: \$32,000
Actual Amount Spent: \$ TBD
Performance Measure: Improved Crash Accuracy
Improved Crash Timeliness



Project: The Colorado Springs Police Department requested and received a grant to implement an E-Crash collection and submission project. This will allow not only the completion of electronic crash reports, but also the electronic submission of these reports to DOR.

Additional info:

1.) Because the Fountain Police Department contracts with the Colorado Springs Police Department, once the system is on line, Fountain PD will also be submitting crash reports electronically.

2.) The Records management system used by Colorado Springs is New World. This system is used by several other law enforcement agencies in the state and completion of this project will assist in those agencies coming on line.



Progress/Results: On Track

Project work scope work completed, the initial interface has been built and testing has begun. Project remains on schedule.

State Traffic Records Advisory Committee 2014 Annual Report

Colorado Department of Transportation

Project Name: Traffic Records Support 14-12-98-003
Grant Amount: \$120,000
Actual Amount Spent: \$TBD
Performance Measure: N/A



Project: Staff will address statewide goals and objectives through review of the 2009 TR Assessment Report.

Progress/Results: Ongoing

This project was audited by the NHTSA on 02/26/2014 without any negative findings and/or problems.

State Traffic Records Advisory Committee 2014 Annual Report

Projects Approved 2013 (October 2012 – September 2013)

Total Money allocated: \$681,506

Total Money Spent: \$617,691

Arapahoe County Sheriff's Office

Project Name: E-Citation 13-04-41-08
Grant Amount: \$89,660
Actual Amount Spent: \$75,532
Performance Measure: Improved Citation Completeness
Improved Citation Timeliness



Project: The Arapahoe County Sheriff's Office requested and received a grant to implement an E-citation system within the agency. The Sheriff's office contracts with six municipalities so they do have municipal court to send citations to. As State Judicial is not ready to accept electronic citations, the proposed system will be developed to send completed citations to the municipal courts.

Conditions: The project must be designed to match the State Judicial schema so that when Judicial is ready, the ability to send citations to them is in place.

Progress/Results: Completed

The project was completed with the exception of the final link to county courts.

Aurora Police Department

Project Name: Accident Mapping Software 13-04-41-09
Grant Amount: \$75,000
Actual Amount Spent: \$62,753
Performance Measure: Improved Crash Accuracy



Project: The Aurora Police Department requested and received a grant to purchase and implement a laser crash mapping instrument designed to improve the accuracy of crash investigations and the associated reporting.

Progress/Results: This project was completed, but failed to provide the desired results of improved accuracy in crash reports. It was determined that the equipment purchased, while more reliable than the previous equipment, took longer to set up and required a complete closure of the roadway. As a result the equipment is only used on the most serious of crashes which fortunately is a low percentage of the total crashes investigated by the City of Aurora.

State Traffic Records Advisory Committee 2014 Annual Report

Colorado Department of Public Health and Environment

Project Name: EMS Trauma Registry System 13-04-41-03
Grant Amount: \$97,700
Actual Amount Spent: \$94,781
Performance Measure: Improved EMS Timeliness
Improved EMS Integration
Improved EMS Completeness



Project: The CDPHE requested and received a grant to develop and maintain a comprehensive EMS and Trauma Registries at the CDPHE which can be used to contribute health information to the CDOT Traffic Safety Integrated Data Base and to improve the infrastructure and CPHE for maintenance and growth of the registries.

Progress/Results: Ongoing Project

The number and proportions of EMS agencies submitting data improved from 80% to 86% in the last year and has more than doubled since 2006. The proportion of EMS data records received within 90 days of incident increased by 10 percentage points in the last year and doubled since 2006. FY2013 was the 1st year since EMS reporting began that Accuracy/Completeness Reports were provided to EMS agencies each quarter. Since EMS data reporting began in 2006, the completeness of two critical variables, Location Zip Code and Destination Type, has increased by 51 and 47 percentage points respectively.

Longmont Police Department

Project Name: E-Citation 13-04-41-12
Grant Amount: \$40,123
Actual Amount Spent: \$40,123
Performance Measure: Improved Citation Accuracy
Improved Citation Timeliness



Project: The Longmont Police Department requested and received a grant to implement an E-citation system within the agency. As State Judicial is not ready to accept electronic citations, the proposed system will be developed to send completed citations to the municipal courts.

Conditions: The project must be designed to match the State Judicial schema so that when Judicial is ready, the ability to send citations to them is in place.

Progress/Results: The project was completed with the exception of the final link to county courts. It established the ground work and prepared for State Courts and DOR acceptance of electronic transfer. Electronic transfer of E-Citation to Police Records Management System and the municipal Court Management Systems are pending development on the receiving side of system to accept data. With full deployment there are some minor adjustments still being made to satisfy the Municipal Courts requirements of the printing, though these are not preventing the use of and issuance of E-Citations.

State Traffic Records Advisory Committee 2014 Annual Report

Greenwood Village Police Department

Project Name: E-Citation 13-04-41-10
Grant Amount: \$117,071
Actual Amount Spent: \$114,571
Performance Measure: Improved Citation Completeness
Improved Citation Timeliness



Project: The Greenwood Village Police Department requested and received a grant to implement an E-citation system within the agency. As State Judicial is not ready to accept electronic citations, the proposed system will be developed to send completed citations to the municipal courts.

Conditions: The project must be designed to match the State Judicial schema so that when Judicial is ready, the ability to send citations to them is in place.

Progress/Results: Completed

The project was completed with the exception of the final link to county courts. Prior to the project 20% of all citations contained incomplete information, since the completion of the project 100% of the citations have no missing information. Citations are arriving at the municipal court on the same day as they are written.

Lafayette Police Department

Project Name: E-Citation 13-04-41-11
Grant Amount: \$20,100
Actual Amount Spent: \$20,100
Performance Measure: Improved Citation Accuracy
Improved Citation Timeliness



Project: The Lafayette Police Department requested and received a grant to implement an E-citation system within the agency. As State Judicial is not ready to accept electronic citations, the proposed system will be developed to send completed citations to the municipal courts.

Conditions: The project must be designed to match the State Judicial schema so that when Judicial is ready, the ability to send citations to them is in place.

Progress/Results:

All components of this project were purchased and installed. The system is currently transmitting citation data to the municipal court. They have experienced some problems that continue to be worked out. The project did run over budget by almost \$10,000, which Lafayette contributed in addition to their planned match. Lafayette advises that timeliness of the citations to court has improved by 2 days and accuracy has improved with 80% fewer errors.

State Traffic Records Advisory Committee 2014 Annual Report

Colorado Department of Transportation

Project Name: EARS Phase 5 13-04-41-05
Grant Amount: \$48,250
Actual Amount Spent: \$48,250
Performance Measure: Improve Crash Access
Reduced Costs



Project: To provide easy-to-access summarized crash data for multiple Colorado agencies and municipalities and provide a cost savings through reduced hours on projects for both CDOT and participating municipalities.

Progress/Results: CDOTEARS application enhanced functionality to prepare it for use by outside agencies. Designed and implemented a new security model to allow outside agencies to self-manage their data. Included a new process to import TCoris data, the ability to import Cleansed Data, the ability to create extracts from Cleansed Data, and responded to and resolved a list of issues discovered during the coding process. Crash diagrams are now able to be submitted electronically which is a major improvement in availability of data.

Colorado Department of Transportation

Project Name: EARS Maintenance 13-04-41-08
Grant Amount: \$15,000
Actual Amount Spent: \$14,875
Performance Measure: Improve Crash Timeliness
Improve Crash Accuracy



Project: To improve the timeliness and accuracy of CDOT summarized accident data.

Progress/Results: On Going Project

Tasks were performed on the data and application to ensure accurate synchronization with DMV data. These tasks included, but were not limited to: Modification of the CDOTEARS schema to conform to Crash Analysis Reporting Data Access (CARDA) changes; inclusion of the changed key structure in CARDA; manual data manipulation of CDOTEARS to recover older data; testing and reporting on data anomalies; discovery of lack of GPS data in accidents; discovery of duplicate case number in MVD data; implementation of new Oracle version objects in CDOTEARS; and publication of changes to the new "Q" server environment.

State Traffic Records Advisory Committee 2014 Annual Report

Colorado Department of Transportation

Project Name: Tech Support Traffic Records Forum 13-04-41-04
Grant Amount: \$5,000
Actual Amount Spent: \$0
Performance Measure: N/A



Project: The STRAC will again send members to the Annual Traffic Records Forum to attend seminars and breakout sessions in traffic records management.

Progress/Results: Not completed
No members were able to attend the conference.

Colorado Department of Transportation

Project Name: TRAPE Expansion 13-04-41-07
Grant Amount: \$51,000
Actual Amount Spent: \$50,750
Performance Measure: Improve Crash Timeliness
Improve Crash Accuracy



Project: Have more agencies utilize electronic reporting of crash records which will provide a more timely and accurate entry of accident/crash data.

Progress/Results: Completed
Lakewood PD passed testing and is awaiting final approval. Westminster PD passed testing and is awaiting final approval. Adams County Communication (Adams County SO, Northglenn PD), Brighton PD and Commerce City PD) is waiting for the data. Vail, PD Avon PD Minturn PD Eagle County SO and Eagle PD are all waiting for I/Leads conversion completion. And Thornton PD had no interest to pursue.

Colorado Department of Transportation

Project Name: Traffic Records Support 13-12-98-06
Grant Amount: \$120,000
Actual Amount Spent: \$93,624
Performance Measure: N/A



Project: Staff will address statewide goals and objectives through review of the 2009 TR Assessment Report.

Progress/Results: Ongoing
Activities included establishing resource requirements, departmental roles and responsibilities, assignment of tasks and schedules, and program management of the FY 2013 grants. Staff performed program management responsibilities with emphasis on interface and coordination among CDOT Staff, Office of Transportation Safety, DOR, and CSP Traffic Records Staff, including sharing of expertise of other major stakeholders.

State Traffic Records Advisory Committee 2014 Annual Report

Colorado Department of Transportation

Project Name: FARS Program Support 13-04-41-14
Grant Amount: \$2,602
Actual Amount Spent: \$2,602
Performance Measure: NA



Project: Supports the ongoing cooperative agreement with NHTSA/NCSA for Colorado to provide an overall measure of highway safety using fatal crash data.

Progress/Results: This project was audited by the NHTSA on 02/26/2014 without any negative findings and/or problems.

STRAC Strategic Plan Summary

Strategic Goal: To provide a sustainable, ongoing, dynamic mechanism for strategic decision making, for traffic records improvements, and for project coordination and implementation.

Objective: Ensure that STRAC has the support it needs to remain effective.

Tasks:

- Seek broader local transportation, enforcement, healthcare, and justice agency participation in membership and pursue structured rotation among officers to include agencies at every level of governance.
- Empower STRAC Team Leads with sufficient information and resources to promote Traffic Records resources.
- Identify current traffic data needs among stakeholders and promote endeavors through STRAC to meet those needs.
- Publish and provide annual reports to policy makers reporting project progress and improvements to Colorado's Traffic Records Systems.

Objective: Ensure that STRAC is an effective, dynamic mechanism for Traffic Records Governance for Colorado.

Tasks:

- Review performance and update the strategic plan, STRAC MOU and Bylaws as appropriate to meet changing needs.
- Continue to prioritize, coordinate, monitor, and help procure funding for projects that support the STRAC Strategic Plan.
- Continuously survey and consider other states' traffic and municipalities' records endeavors for possible use in Colorado.
- Identify, acquire and provide continuous support for a designated Traffic Records Coordinator. This person will be charged with the maintenance of a project management system and the continual monitoring and reporting of project activities including the 405C grant program.

State Traffic Records Advisory Committee 2014 Annual Report

Strategic Goal: To promote traffic records endeavors that serve the programs supporting those endeavors as well as to serve the users of the data.

Objective: Provide support for systems projects that create efficiencies in program areas while improving traffic data attributes.

Tasks:

- Support projects to provide local law enforcement with electronic accident and citation reporting capabilities.
- Develop a plan for implementing a uniform traffic citation statewide among municipal and county courts and local law enforcement agencies.
- Use the uniform citation as the basis for the development of statewide electronic citation issuance, reporting and disposition.
- Ensure that electronic citation reporting includes issuance to disposition data, including original charging and ultimate disposition information.
- Leverage the existing Weld County electronic citation project into other districts through coordination between State Judicial, local law enforcement, CSP and DOR.
- Promote start to finish statewide electronic Penalty Assessment processing and payment from ticket issuance to Judicial, DOR, offender and driver file.
- Promote projects that support mag-stripe, bar code readers, and GPS positioning for automatic entry into electronic accident and crash reporting.

Strategic Goal: To continually monitor, assess and improve all attributes of traffic data.

Objective: Establish common standards to ensure the compatibility of systems and comparability of data and ensure the expeditious collection, management and accurate transfer of data among state and local jurisdictions

Tasks:

- Adopt and promote compliance with the following national standards: (National Information Exchange Model (NIEM), Model Minimum Uniform Crash Criteria (MMUCC) and National Emergency Medical Services Information Systems (NEMSIS).
- Promote efforts to establish and maintain comprehensive, up-to-date data dictionaries for disparate data systems, and uniform common data dictionaries for common data elements and linking disconnected data.

State Traffic Records Advisory Committee 2014 Annual Report

Objective: Institute improvements to Colorado's Injury Surveillance System Components in alignment with the recommendations of the most recent Traffic Records Assessment.

Tasks:

- Continue to promote MATRIX and recruit additional agencies to submit data.
- Institute data quality checks in MATRIX to reduce the rate of missing information.
- Complete planned linkage of crash and SWISS databases.
- Continue EMS (CDPHE) data expansion project.

Objective: Institute improvements to Colorado's Driver and Vehicle Records in alignment with the recommendations of the most recent Traffic Records Assessment.

Tasks:

- Develop a plan to record significant adverse driver history entries from previous states of licensure for all drivers, not only for commercial vehicle drivers.
- Develop a plan to preserve original charging as well as disposition data on citations.
- Add bar codes to motor vehicle registrations.
- Keep informed on CDOR's upcoming driver/vehicle systems and align and link them, as much as possible, with other existing state traffic records systems.

Objective: Institute improvements to Colorado's Crash Records alignment with the recommendations of the most recent Traffic Records Assessment.

Tasks:

- Monitor progress on electronic data transmission and ensure that the STRAC has the information it needs to provide meaningful oversight and assistance.
- Develop a plan to meet the eventual need to serve small-to-medium size law enforcement agencies with a method to collect and transmit their crash report data electronically.
- Ensure the quality of the entry of location codes and associated error correction. Include thorough training of the temporary workers and continuous monitoring of the work products.

State Traffic Records Advisory Committee 2014 Annual Report

- Expand and formalize the quality control process for crash data, to include the following components by:
 - Documenting a comprehensive set of edit checks that apply to all crash data entry, whether in DOR from paper reports or in the field by law enforcement officers using field data collection software.
 - Using a listing of corrections made at CDOT during data cleansing to enhance the accuracy of future reporting through officer training.
 - Returning reports containing errors to the originating agency/officer for correction.
 - Tracking the time it takes law enforcement agencies to submit corrected reports.
 - Tracking the most frequent reasons for returning a crash report for correction, and using this information for feedback and training.
 - Establishing operationally meaningful data quality metrics measuring timeliness, accuracy, and completeness for all crash reporting.
 - Managing “by the numbers” focusing on improving data quality through continuous monitoring and corrective action when the metrics show unacceptable data quality.

Objective: Institute improvements to Colorado’s Crash Records alignment with the recommendations of the Crash Data Improvement Program Assessment.

Tasks:

- To be determined upon complete review and analysis of improvement recommendations.

Objective: Institute improvements to Colorado’s Citation and Adjudication Records in alignment with the recommendations of the most recent Traffic Records Assessment.

Tasks:

- Finalize the various components of a statewide electronic citation process such as a data dictionary, business (validation) rules, quality metrics, etc. for use by agencies and vendors.
- Develop strategies and an implementation that will promote use of electronic citations in the law enforcement community and courts.
- Expand the SCAO & CJIS repositories or alternate repositories to include all citations.

State Traffic Records Advisory Committee 2014 Annual Report

Objective: Promote uniform location coding protocols for both on-system and off-system data.

Tasks:

- Support projects that promote increased GIS/GPS event pinpointing and mapping.
- Support local initiatives to adopt and incorporate uniform location coding protocols.

Strategic Goal: To meet user needs by providing robust resources for traffic data analysis and reporting.

Objective: Institute improvements to analytic capabilities in alignment with the recommendations of the most recent Traffic Records Assessment.

Tasks:

- Design an annual Problem Identification report that meets the needs of program managers in OTS and that can be used by safety managers the general user population.
- Use the recommended revised Problem Identification reports to position OTS as the lead for developing behavior-related safety countermeasures and soliciting proposals based on identified problem regions and subpopulations.
- Provide for ongoing, year-round capabilities to generate ad hoc analyses and reports specific to the behavioral issues and countermeasures of the “six pack” of program areas and typical requests for information as fielded by the CDOT Public Relations Office.
- Develop in-house analytic capabilities within OTS, with a combination of strong data reporting and communication skills.

Objective: Identify and support user needs for Traffic Records data.

Tasks:

- Develop a comprehensive list of those who have a stake in or use traffic records data in Colorado.
- Invite key users to participate in data use planning.
- Develop data use assessment tools to create greater accessibility.
- Support projects that respond to ongoing broad-based data use needs of identified users, to include a web access for resident queries of Colorado’s crash data.

State Traffic Records Advisory Committee 2014 Annual Report

Membership in the STRAC Committee:

Voting Agencies and the Assigned Members:

- | | |
|---|-----------------------|
| • Department of Public Safety | Major Barry Bratt |
| • Department of Revenue | Ms. Cheri Urda |
| • Department of Transportation | Mr. Charles Meyers |
| • Department of Public Health and Environment | Ms. Lindsey Myers |
| • Department of Human Services | Mr. Webster Hendricks |
| • State Judicial | Ms. Christine Meints |
| • Office of Information Technology | Pending |

Federal Agencies:

- National Highway Traffic Safety Administration (NHTSA)
- Federal Motor Carriers Safety Administration (FMCA)
- Federal Highway Administration (FHWA)

State Associations:

- Colorado Chiefs of Police Association
- Colorado Sheriff's Association
- Mothers Against Drunk Drivers Association
- Colorado District Attorney's Association
- Colorado Motor Carrier's Association
- Bicycle Colorado
- Colorado Local Technical Assistance Program

Local Agencies:

- Denver Regional Council of Governments
- City and County Officials
- City and County Law Enforcement
- Coroner's Office
- Higher Education

Other Participants:

- Any other person, association, or governmental agency with a demonstrated interest in traffic records and accepted as a participant by a majority of the Voting Members.

STRAC Officers:

- | | |
|--------------------|--------------------------|
| • Chairperson | Major Barry Bratt - CDPS |
| • Vice Chairperson | Ms. Cheri Urda – CDOR |
| • Secretary | Mr. David Bourget – CDOT |
| • Sergeant at Arms | Mr. Glenn Davis - CDOT |

Team Leads:

- | | |
|--------------------------------------|----------------|
| • Injury Surveillance | CDPHE |
| • Citation/Adjudication | State Judicial |
| • Crash Records & Roadway Files | CDOT |
| • Driver Licensing & Vehicle Records | CDOR |
| • STRAC Committee | STRAC Officers |