

A&I Online Tools & Developing Performance-based Plans

Presented by:

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Learning Objectives

- Further the FMCSA mission of reducing large truck and bus crashes, injuries, and fatalities
- Learn how to use the A&I Online tools to find your State data
- Understand the elements of performance-based CVSPs
- Understand where to acquire additional information, seek assistance, and obtain ongoing technical support



Session Agenda

- What A&I Online is and where to find it
- Overview of A&I Online
- How do these tools improve safety?
- Demonstration of CVSP Toolkit and the A&I Online Tools
- Methodology – developing problem statements and performance objectives
- Commitment to continuous improvement



How Does A&I and Performance-Based Planning Help to Improve Safety?

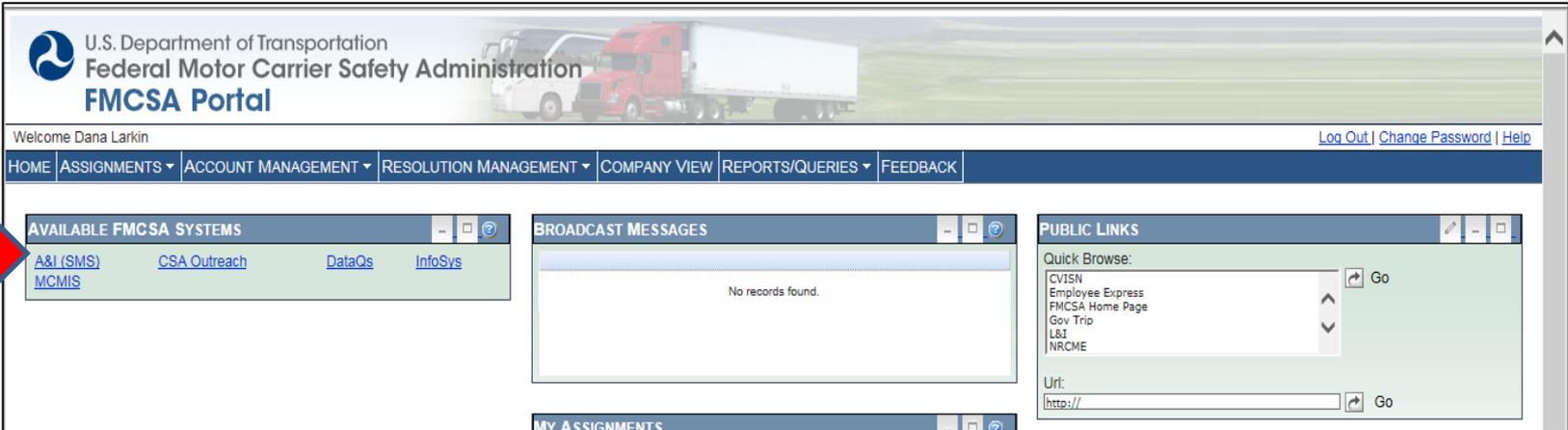
- A&I allows for data-driven decision making, such as CMV problem identification and monitoring
 - Reliable data source
 - Frequent updates
- Provides a framework to identify, address, monitor, and evaluate problems in your state



Where to Find A&I

- Log in to the Portal
- Select A&I (SMS)

<https://portal.fmcsa.dot.gov>



The screenshot displays the FMCSA Portal interface. At the top, it shows the U.S. Department of Transportation logo and the text 'Federal Motor Carrier Safety Administration FMCSA Portal'. Below this is a navigation bar with links for HOME, ASSIGNMENTS, ACCOUNT MANAGEMENT, RESOLUTION MANAGEMENT, COMPANY VIEW, REPORTS/QUERIES, and FEEDBACK. A red arrow points to the 'AVAILABLE FMCSA SYSTEMS' section, which contains links for 'A&I (SMS)', 'CSA Outreach', 'DataQs', and 'InfoSys'. Other sections visible include 'BROADCAST MESSAGES' (with 'No records found.') and 'PUBLIC LINKS' (with a 'Quick Browse' list and a search field).



A&I Overview

- Provides statistics and analysis about commercial vehicle and driver safety programs
- You can:
 - Find enforcement program data (reviews, inspections, violations) related to your State
 - Identify crash issues in your State by geographical location
 - Review and monitor State data quality
- A&I data updated monthly/quarterly/weekly



A&I Online – Today's Focus

- CVSP Toolkit
- Crash Statistics
- Data Quality
- Enforcement Programs
- State Quarterly Report/CVSP Data Dashboard



CVSP Toolkit (MCSAP module)

- State Data Summary
- Analyze Potential Problems (Crash and Data Quality)
 - Who, what, where, when, why?
- GIS Crash Maps and Inspection Maps
 - (Access from MCSAP & Crash Statistics module)



U.S. Department of Transportation A&I Home | What's New! | Contacts | What is A&I | A&I Data | Feedback FMCSA Home

Commercial Vehicle Safety Plan
Federal Motor Carrier Safety Administration

CVSP Home | **State Data Summary** | Potential Problem Areas | Crash & Inspection Maps | Supporting Materials

Select State | View My Portfolio | (1) Reports in Portfolio

CVSP Toolkit Print Help

The goal of the CVSP Toolkit is to provide online assistance and customized data reports to FMCSA and State Enforcement Users for use in their Commercial Motor Vehicle Safety Plans (CVSPs).

Search All FMCSA Sites Go

Thursday, March 24, 2016

1,100 1,300 900 600 300 100 500 400
1,020 760 600 400 200 90
720 100 300 530 100 20
620 1,300 700 400 30

CVSP Toolkit

- Review State Data Summary
- Analyze Potential Problem Areas
- Create Crash & Inspection Maps
- Generate Portfolio
- Download Supporting Materials

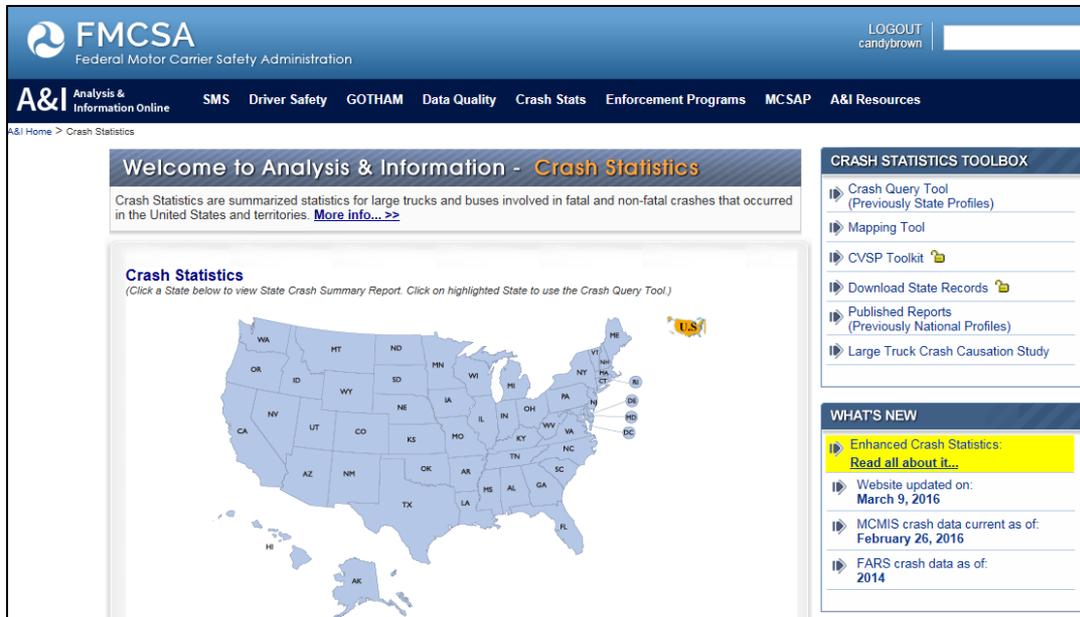
Customize Your State Data into a Downloadable Portfolio

(Get MCSAP Forms)



Crash Statistics Module

- Crash Query Tool
 - Determine trends
 - Filter different data sets
 - Follow-up monitoring
- Mapping Tool (crashes/inspections)
- Download State Records
 - Analyze complete State-reported crash records

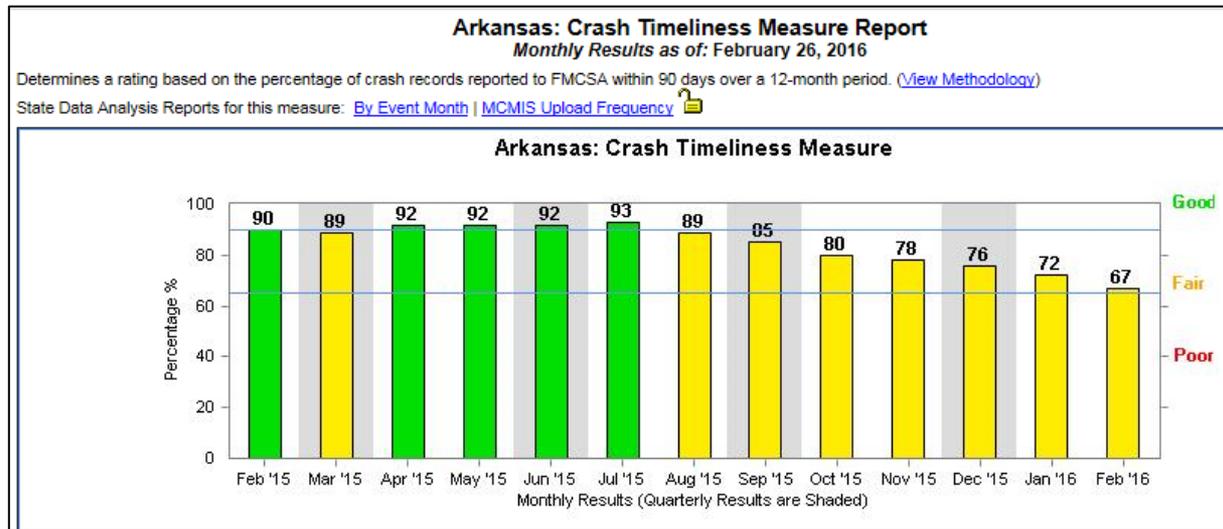


The screenshot displays the FMCSA Analysis & Information Online interface for the Crash Statistics module. The page features a navigation menu with options like SMS, Driver Safety, and Crash Stats. The main content area includes a welcome message, a map of the United States with state abbreviations, and a sidebar with a 'CRASH STATISTICS TOOLBOX' containing links to various tools and reports. A 'WHAT'S NEW' section highlights 'Enhanced Crash Statistics' and provides update dates for MCMIS and FARS data.



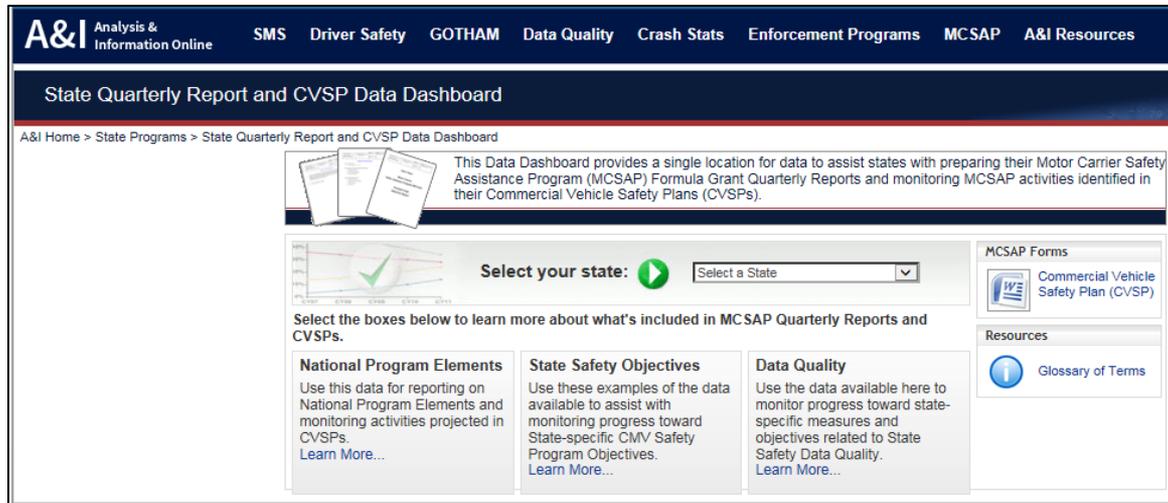
Data Quality Module

- Evaluates State-reported crash and inspection data on a monthly basis
- Provides summary and drill-down reports to examine problem areas



State Quarterly Report/Data Dashboard (MCSAP Module) Objectives

- Assist States with preparing their MCSAP-related quarterly reports
 - Provides detailed counts *by quarter and FY to-date* for core elements
 - Simplifies search process on A&I Online



The screenshot shows the 'State Quarterly Report and CVSP Data Dashboard' interface. At the top, there is a navigation bar with the 'A&I Analysis & Information Online' logo and several menu items: SMS, Driver Safety, GOTHAM, Data Quality, Crash Stats, Enforcement Programs, MCSAP, and A&I Resources. Below the navigation bar, the page title 'State Quarterly Report and CVSP Data Dashboard' is displayed. A breadcrumb trail reads 'A&I Home > State Programs > State Quarterly Report and CVSP Data Dashboard'. The main content area features a descriptive paragraph: 'This Data Dashboard provides a single location for data to assist states with preparing their Motor Carrier Safety Assistance Program (MCSAP) Formula Grant Quarterly Reports and monitoring MCSAP activities identified in their Commercial Vehicle Safety Plans (CVSPs)'. Below this text is a 'Select your state:' dropdown menu with a play button icon. To the right, there are sections for 'MCSAP Forms' (with a link to 'Commercial Vehicle Safety Plan (CVSP)') and 'Resources' (with a link to 'Glossary of Terms'). At the bottom, there are three columns of information: 'National Program Elements' (with a 'Learn More...' link), 'State Safety Objectives' (with a 'Learn More...' link), and 'Data Quality' (with a 'Learn More...' link).



State Quarterly Report/Data Dashboard (MCSAP Module) Three Categories

- National Program Elements
 - Driver/Vehicle Inspections
 - Traffic Enforcement
 - Reviews

- State-Specific Objectives
 - Examples based on recommended objectives

- Data Quality (SSDQ)



Methodology



Performance Based Safety Objectives

- Data analysis is key to quantifying problems and measuring performance
- Requires an understanding of:
 - National goals and priorities
 - State-specific goals and priorities
 - Available data sources
 - Other State-specific information, data sources, and studies
 - Operational knowledge and experience



Performance Based Methodology

- Provides a systematic framework for developing, monitoring, and evaluation of safety objectives
- Relies on data and analysis for:
 - Identification of safety and data quality problems
 - Definition of baseline data
 - Development of quantifiable safety objectives and goals
 - Continuous monitoring and evaluation of objectives, strategies, and activities



4 Step Methodology

1. Identify and quantify the CMV safety problem
2. Define objective/goal related to problem including the baseline
3. Identify strategies and activities designed to reach objective
4. Define Performance Measurements including how you will monitor and report on progress



Problem Statement Narrative

- The number of crashes involving commercial motor vehicles in State X increased over the last several years.



Problem Statement Narrative

- From FY 2010 – 2014, the number of crashes involving CMVs fluctuated from 3,832 (in 2010) to 3,333 (in 2014). During this 5-year period, the average number was 3,558.
- ~ 28% (1,196 avg./yr.) of these involvements occurred in four counties: A, B, C, and D.
- From 2010 – 2014, speeding was cited in ~ 40% (10,445) of the State's TE violations.
- Speeding was identified as the critical reason in 21% of the estimated truck-involved crashes nationwide (FMCSA Large Truck Crash Causation Study).



Performance Objective

- Reduce the number of CMVs involved in crashes in State X by 15%.



Performance Objective

- Reduce the number of CMVs involved in crashes in **A, B, C, and D counties** by **6% (72)** by **the end of FY 2017** when compared to the five-year average of **1,196**.



Program Strategies and Activities

- Increase patrols in high crash areas each quarter.



Program Strategies and Activities

- Increase patrols in A, B, C, and D counties by **10% (1,100 hours)** when compared to the # of patrols conducted in **2014 (1,000 hours)**.
- Patrols will be highly visible and **scheduled based on an analysis of crash data, e.g. time of day**, etc. Adjustments will be made on a quarterly basis, based on data review.



Program Strategies and Activities (Cont.)

- Using this data, increase patrols activity **in A, B, C, and D counties by 10% during the Q1 FY 2017**. Identify and track violations cited. Incorporate aggressive enforcement of all traffic laws, with particular emphasis on speeding violations during regular shifts, as time and resources permit.



Performance Measures and Evaluation

- State X will review periodically and report to Division Office as required.



Performance Measures and Evaluation

- During Q1, the MCSAP Coordinator will **review crash data analysis results**, including location and time.
- During Q2, the MCSAP Coordinator will **review inspection/violation results** from the increased enforcement activity.



Performance Measures and Evaluation (cont.)

- The MCSAP Coordinator will **compare the quarterly and annual CMV-involved crash totals to the baseline data** to determine whether or not the performance measures were achieved.
- In coordination with FMCSA, **the MCSAP Coordinator will adjust activities and/or strategies** as needed to meet performance objectives.



Commitment to Continuous Improvement

- We ask you to please:
 - Keep the dialogue alive
 - Constructively share feedback on ways to make the A&I tool better
- Together we will work to develop a dynamic tool based on the most up-to-date needs, requirements, and best practices



Q & A

- Any questions, comments or concerns?



Thank You

- Thank you for your time
- If you have any additional comments, feedback, or questions, please contact:
 - A&I Technical Support
 - 877-688-2984
 - Performance-based planning
 - Karen Brooks, FMCSA State Programs Division, 202-465-5641



How We Define Success

True Success: Everyone gets home safe!

