



Federal Motor Carrier  
Safety Administration

**CSA2010**  
Comprehensive Safety Analysis

# CSA 2010 State Program Managers Meeting

Austin, TX  
July 2009

## Objectives of Today's Session

- Discuss CSA 2010 Program elements to be implemented beginning in July 2010
- Discuss potential impact of 2010 rollout on:
  - Motor Carrier Safety Assistance Program and annual planning;
  - Roadside enforcement operations;
  - Roadside enforcement information systems

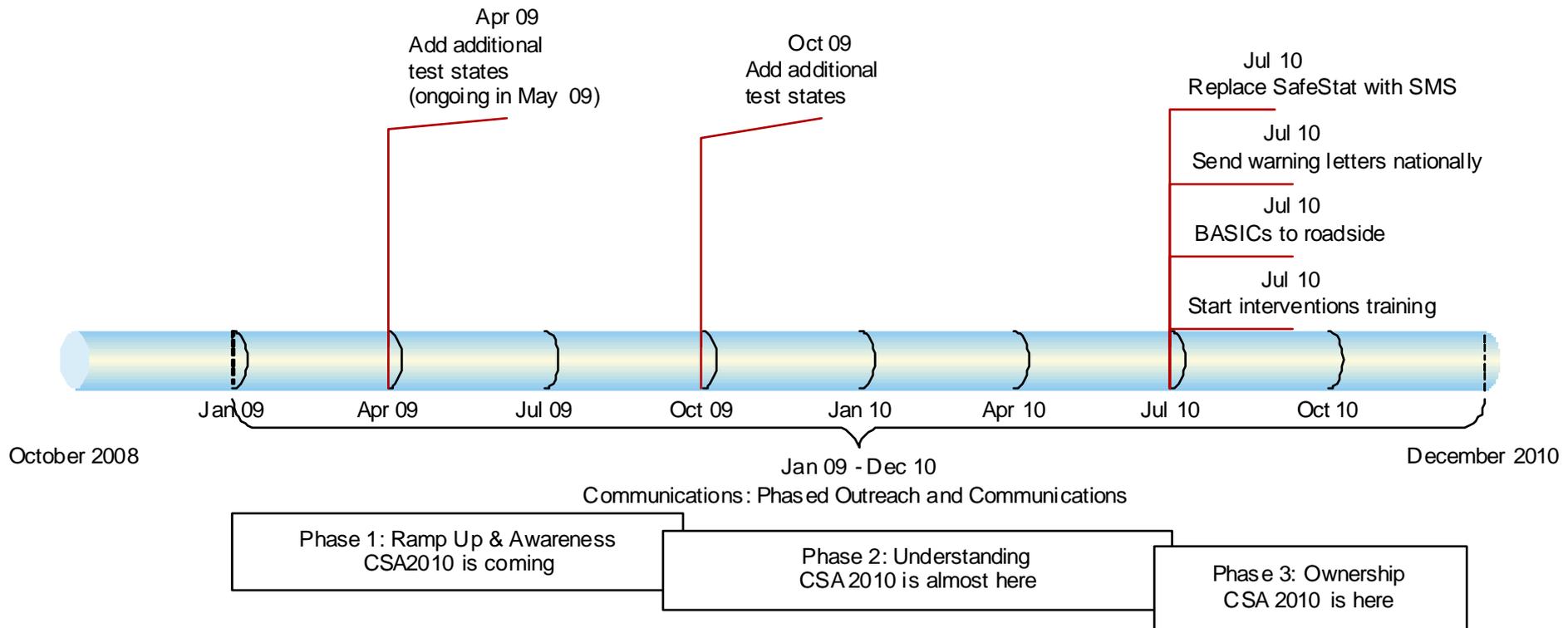
## CSA 2010

### CSA 2010 Program Elements scheduled for implementation beginning in July 2010:

1. New set of interventions to replace the Compliance Review
  - phased from July 2010 through end of year
2. Warning Letters issue Nationwide
  - July 2010
3. New Safety Measurement System (SMS) to replace SafeStat
  - July 2010
2. New Safety Measurement System results (BASICs) distributed to roadside
  - July 2010



# National Implementation Timeline



# CSA 2010: New Interventions

## Phased in Beginning July 2010

- Provides more tools to reach more carriers and compel safety compliance before crashes occur
- Investigations
  - On-site comprehensive investigations (enhanced compliance review)
  - On-site focused investigations
  - Off-site investigations
- Follow-on corrective actions
  - Out-of-Service (OOS) orders
  - Notice of Violation
  - Notice of Claim
  - Cooperative Safety Plan



## Interventions Rollout

### Potential Impacts

- State offices (safety investigators and managers) will be receiving training on the new enforcement model
  - New safety measurement system and new intervention process
- States will continue to plan for their motor carrier safety activities
  - Plans will be based on the set of new interventions instead of the traditional Compliance Review
    - Off-site, Onsite Focused and onsite comprehensive investigations

## CSA 2010: Warning Letters Nationwide

### In July 2010

- Warning Letters will be issued to carriers exceeding certain thresholds (deficient BASICs) based on the new Safety Measurement System

# Warning Letters Nationwide

## Potential Impacts

- Increased phone calls to state offices
  - Questions surrounding the inspections and violations used in measurement system
  - Questions regarding measurement results
- Potential increase in Data Qs
  - New measurement system includes all safety based violations (not just OOS as in today's SafeStat)
  - All violations are under increased carrier scrutiny

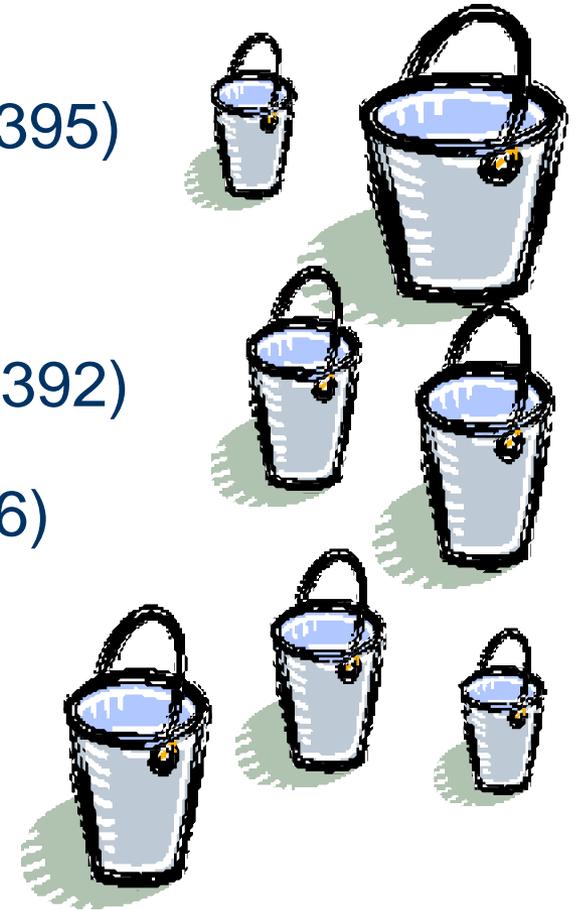
# CSA 2010: **S**afety **M**easurement **S**ystem (**SMS**) to Replace SafeStat

## In July 2010

- Measures safety performance using all roadside inspection safety-based violations
- Weights time and severity of violations based on relationship to crash risk
- Performance-based for determining motor carrier and driver safety
- Calculates safety performance in 7 **B**ehavior **A**nalysis and **S**afety **I**mprovement **C**ategories (**BASICs**)

## CSA 2010 BASICs

- Unsafe Driving (Parts 392 & 397)
- Fatigued Driving (HOS) (Parts 392 & 395)
- Driver Fitness (Parts 383 & 391)
- Controlled Substances/Alcohol (Part 392)
- Vehicle Maintenance (Parts 393 & 396)
- Improper Loading/Cargo Securement (Parts 392, 393, 397 & HM)
- Crash Indicator



## Safety Measurement System vs. SafeStat

Today's Model SafeStat	CSA 2010's SMS
Organized in 4 broad categories --- Safety Evaluation Areas	Organized by Behavior Analysis Safety Improvement Categories (7 BASICs)
Identifies carriers for a compliance review (CR)	Identifies safety performance problems to determine intervention level
Uses only out-of-service (OOS) and moving violations from inspections	Emphasizes on-road safety performance, using <u>all</u> safety-based inspection data
No impact on safety rating	Used to propose adverse safety fitness determination based on carriers' own data
No risk based violation weightings	Risk based violation weightings
Assesses carriers only	Two distinct safety measurement systems – carriers and drivers

# New Safety Measurement System

## Potential Impacts

- Data driven operational model:
  - Indicates carriers' specific safety behaviors that should be focused on during investigations
  - Indicates whether carrier has addressed and improved safety deficiencies
  - All safety based violations count

## New Safety Measurement System

1. Increased importance of **data quality efforts**
  - Need accurate, timely and complete roadside and crash data
  - Need for uniform roadside inspection reporting and violation documentation
2. Potential for increase in Data Qs as more violations are being used

## New Safety Measurement System

3. Increased importance of **Roadside Inspection** program
  - FMCSA and partners are working to ensure
    - Consistent documentation of roadside inspection and violation data
    - Standardized processes for challenging data
    - Increased awareness and understanding all inspections (both good and bad) must be uploaded, and uniform inspection selection processes
    - Later on – when SFD is in place – even greater importance placed on the job of roadside inspector

## New Safety Measurement System

### Roadside Uniformity work of CVSA

- FMCSA high priority grant
- May result in increased training for roadside inspectors
  - new operational guidance on “how to cite”

# New Safety Measurement System Results Distributed to Roadside

## In July 2010

- SMS and BASIC percentiles will replace SafeStat and SEA values as foundation for roadside inspection recommendation and display at the roadside
- ISS scores will continue to be generated but will be driven by BASIC values instead of SafeStat scores

## Potential Impacts

- Will impact ISS, Query Central, CVIEWs developed through CVISN

# Current View of ISS

**ISS Inspection Selection System v2.12.3 - USDOT #**

File Actions Help

Main Details Violation Details History

**Carrier Operation Type:**  
 Interstate  Intrastate  HM-Intrastate

**Carrier Identification:**  
 DOT Number:   
 MC/MX Number:

**Safestat Indicators:**

Crash SEA:	<b>50.91</b>
Driver SEA:	<b>38.84</b>
Vehicle SEA:	<b>32.99</b>
Mgmt SEA:	<b>29.81</b>

Carrier SAFESTAT Category: **H**  
 Last Updated: **02/20/2009**

**Carrier Statistics:**

Vehicle Out-Of-Service Rate:	<b>13.75 %</b>
Driver Out-Of-Service Rate:	<b>3.38 %</b>
Inspections Per Power Unit:	<b>1.10</b>
Inspections Per Driver:	<b>1.87</b>
Number of Power Units:	<b>11,874</b>
Number of Drivers:	<b>11,526</b>
Total Number of Inspections:	<b>21,675</b>
Inspections Involving HM:	<b>1,290</b>
Safety Rating as of: <b>1992</b>	<b>S</b>

Insurance Details HM Permit Details UCR Details Terminal Details

# Future View of ISS

**ISS Inspection Selection System v2.12.3**

File Actions Help

Main Details Violation Details History

**Carrier Identification:**  
 DOT Number:  
 MC/MX Number:

**Carrier Operation Type:**  
 Interstate  Intrastate  HM-Intrastate

**BASIC Percentiles:**

Unsafe Driving:	<b>76.9%</b>
Fatigued Driving:	<b>85.1%</b>
Driver Fitness:	35.2%
Drugs and Alcohol:	69.2%
Vehicle Maintenance:	33.6%
Improper Loading/Cargo:	70.7%
Crash Indicator:	<b>90.3%</b>

**Carrier Statistics:**

Vehicle Out-Of-Service Rate:	<b>14.17%</b>
Driver Out-Of-Service Rate:	<b>8.07%</b>
Inspections Per Power Unit:	<b>2.40</b>
Inspections Per Driver:	<b>4.45</b>
Number of Power Units:	<b>256</b>
Number of Drivers:	<b>287</b>
Total Number of Inspections:	<b>1,288</b>
Inspections Involving HM:	<b>48</b>
Safety Rating as of: <b>1982</b>	<b>S</b>

Last Updated: **04/25/2008**

Insurance Details HM Permit Details UCR Details Terminal Details

# Current View of Query Central

Query Central Carrier Detail - Windows Internet Explorer

https://qc.fmcsa.dot.gov/qc.dll/CarrierDetail?SID=6CF88

File Edit View Favorites Tools Help

Query Central Carrier Detail

**Query Central** **CARRIER DETAIL**

Driver | Vehicle | Carrier | Help | Home | Log Off

[Carrier Summary](#) | [Carrier Detail](#) | [Violation History](#) | [3337 Past Inspection\(s\)](#) | [PRISM](#) | [Summary Report](#)

**Inspection Value: 33 - PASS**

**Carrier Statistics & SAFESTAT Indicators**

Vehicle OOS Rate:	13.75%	Safety Rating:	S
Driver OOS Rate:	3.38%	Rating Date:	05/08/1992
Inspections per Power Unit:	1.10	SAFESTAT Category:	H
Inspections per Driver:	1.87	Crash SEA:	50.91
Number of Power Units:	11,874	Driver SEA:	38.84
Number of Drivers:	11,526	Vehicle SEA:	32.99
Total Inspections:	21,675	Mgmt SEA:	29.81
Inspections Involving HM:	1,290	SAFESTAT Date:	02/20/2009

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# Future View of Query Central



## CARRIER DETAIL

[Driver](#) [Vehicle](#) [Carrier](#)
[Help](#) [Home](#) [Log Off](#)

[Carrier Summary](#) | [Carrier Detail](#) | [Violation History](#) | [453 Past Inspection\(s\)](#) | [PRISM](#) | [Summary Report](#)

**DOUG ANDRUS DISTRIBUTING LLC**      **Inspection Value: 96 - Inspect**

**Carrier BASIC Values and Statistics**

Unsafe Driving:	76.9%	Vehicle OOS Rate:	14.17%
Fatigued Driving:	85.1%	Driver OOS Rate:	8.07%
Driver Fitness:	35.2%	Inspections per Power Units:	1.12
Drugs and Alcohol:	69.2%	Inspections per Driver:	4.45
Vehicle Maintenance:	33.6%	Number of Power Units:	256
Improper Loading/Cargo:	70.7%	Number of Drivers:	287
Crash Indicator:	90.3%	Total Inspections:	1,288
Last Updated:	04/25/08	Inspections Involving HM:	48

**Carrier Rating**

Safety Rating:	S	Rating Date:	05/08/1982
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My Computer      100%

# Safety Measurement System: Impacts on State CVIEWs

1. **Data available for display through Commercial Vehicle Information Exchange Windows (CVIEWs)**
  - **Current**
    - SafeStat Score, Category, and 4 Individual Safety Evaluation Area Values
  - **Under new Carrier Safety Measurement System**
    - Evaluation in each of the 7 BASICS
2. **Data elements in T0031, T0041P, and T0042P Transactions**
  - **Current**
    - Include fields for SafeStat Score, Individual Safety Evaluation Area Values
  - **Under new Carrier Safety Measurement System**
    - Evaluation in each of the 7 BASICS

## Changes to SAFER-CVIEW Transaction Sets

- Following data elements will be removed from T0031 transaction set
  - SAFESTAT\_RUN\_INDICATOR
  - SAFESTAT\_DATE
  - SAFESTAT\_ACCIDENT\_SEA
  - SAFESTAT\_CATEGORY
  - SAFESTAT\_DRIVER\_SEA
  - SAFESTAT\_LETTERS
  - SAFESTAT\_LETTER\_DATE
  - SAFESTAT\_MANAGEMENT\_SEA
  - SAFESTAT\_INDICATOR
  - SAFESTAT\_VEHICLE\_SEA

## Changes to SAFER-CVIEW Transaction Sets

- Following data elements will be added to the T0031 transaction set
  - BASICS\_RUN\_INDICATOR
  - BASICS\_FATIGUED\_DRIVER
  - BASICS\_VEHICLE\_MAINT
  - BASICS\_UNSAFE\_DRIVING
  - BASICS\_DRUG\_ALCOHOL
  - BASICS\_CARGO\_SECURING
  - BASICS\_DRIVER\_FITNESS
  - BASICS\_CRASH\_INDICATOR
  - CSA\_LETTERS
  - CSA\_LETTERS\_DATE

## Changes to SAFER-CVIEW Transaction Sets

- Following data elements may change in the T0031 transaction set
  - MCSIP\_FLAG
  - MCSIP\_LEVEL
  - MCSIP\_LEVEL\_DATE
  - MCSIP\_ENTRY\_DATE
  - ISS\_SCORE
  - ISS\_SCORE\_DATE
  - ISS\_INDICATOR

## Changes to SAFER-CVIEW Transaction Sets

- Following data element will change in the T0041P transaction set
  - MCSIP\_step (MCSIP step of safety carrier)
- Following data element will change in the T0042P transaction set
  - safestat\_indicator

## Changes to SAFER-CVIEW Transaction Sets

- States can request Federal CVISN Deployment Grant funding to pay for CSA 2010-related modifications to CVIEWs
- States can request Federal CVISN Deployment Grant funding to pay for CVIEW recertification
- FMCSA IT implementation date of July 2010

## Discussion Questions

- Do you see any potential impacts outside of what was presented today?
- Do you foresee any challenges in working with our State partners in 2010 rollout beginning next July?