



## State Analysis Descriptions

State Data Analysis Reports that support the State Safety Data Quality (SSDQ) evaluation and the individual measures.

The SSDQ results provide the States with a comprehensive evaluation on the completeness, timeliness, accuracy, and consistency of State-reported crash and roadside inspection data in MCMIS. The State Data Analysis Reports were created to provide additional detail on activity that may be occurring within a State not immediately apparent from the measure itself. These reports may support a State's endeavors to identify improvement strategies for improving their overall State data quality.

[Crash Record Completeness: Complete Record Analysis](#)

[Crash Record Completeness: Monthly Analysis](#)

[Crash Timeliness: Monthly Analysis](#)

[Crash Timeliness: Frequency of Record Uploads to MCMIS](#)

[Crash Accuracy: Records Reported by Agency and Badge Number](#)

[Inspection Timeliness: Monthly Analysis](#)

[Inspection Timeliness: Records Reported by Inspector ID](#)

[Inspection Timeliness: Records Reported by Inspection Facility Type and Inspection Level](#)

[Inspection Timeliness: Records Reported by County](#)

[Inspection Accuracy: Records Reported by Inspector ID](#)

### Crash Record Completeness: Complete Record Analysis

The "Complete Record Analysis" report presents an analysis of all FMCSA-required fields in each crash record submitted to FMCSA. A field is considered complete if it contains any data. All FMCSA reportable crash records submitted by the States through SAFETYNET to MCMIS were used in this analysis. The records represent all interstate and intrastate carriers and include large truck and bus vehicle types. The fields "report number", "crash date", "crash time" and "time zone" are pre-populated in SAFETYNET so they are not evaluated in this report. This report is based upon crash fields required to be completed in SAFETYNET version 3.6.

A crash record contains information important to identify the carrier and driver, the location of the crash, if hazardous materials were transported, and the sequential crash events. All fields are expected to be accurately documented at the time of the crash event and submitted in a timely manner to FMCSA. Populating fields with erroneous data does not support FMCSA's mission to reduce the number of commercial motor vehicle crashes on our nation's roadways. Monitoring the completeness of the crash fields is important to FMCSA and the States. Any significant changes in reporting should be evaluated further to determine if corrective actions are needed.

Note: Any field counted as incomplete indicates that the data may not have been entered into SAFETYNET properly or may not have been collected on the crash report form.

#### Definitions

**Carrier Information Table** - Carrier information in crash records can only be evaluated for completeness if one of the following conditions is met: 1) carrier type is equal to Interstate or 2) carrier type is equal to Intrastate and the HM placard field is equal to yes. For all other crash records, the US DOT # and MC/MX # fields may be left blank if these conditions are not met.

#### HM Information Table

**HM Placard Displayed** - If an HM Placard is displayed on a vehicle (HM placard is marked as 'yes' in SAFETYNET), then the fields HM Class #, HM 4-Digit #, HM Name and HM Release were evaluated for completeness.

**HM Placard Not Displayed** - If an HM Placard is not displayed on a vehicle (HM placard is marked as 'no' in SAFETYNET), then the fields HM Class #, HM 4-Digit #, HM Name and HM Release should not contain data. These fields were evaluated for completeness based upon the value of the HM Placard field.

**HM Placard Not Applicable** - If a vehicle is not required to display an HM Placard (i.e. school bus), then the fields HM Class #, HM 4-Digit #, HM Name and HM Release should not contain data. These fields were evaluated for completeness based upon the value of the HM Placard field.

**Agency, Location, Environment, Driver, Vehicle and Crash Information Table** - All fatal and non-fatal crash records are required to have complete information for these fields, which are collected at the scene of every crash event.

**Event 1, 2, 3 & 4** - A crash record accounts for the first and up to three subsequent events that happened to the truck or bus involved in the crash. A minimum of one event is typically recorded per crash event. These events are entered in sequential order if there are multiple events.

### Crash Record Completeness: Monthly Analysis

The "Monthly Analysis" report presents an analysis of the driver and vehicle fields in each crash record reported to FMCSA broken down by 1 month increments for the 12-month analysis period. For each month, the 10 data fields (driver license number, driver date-of-birth, driver first name, driver last name, license class, vehicle identification number, license plate number, vehicle configuration, cargo body type, and gross vehicle weight rating) are individually analyzed for completeness. A field is considered complete if it contains any data. The records evaluated represent all interstate and intrastate carriers and include large truck and bus vehicle types.

All driver and vehicle fields are expected to be accurately documented at the time of the crash event and submitted in a timely manner to FMCSA. Populating fields with erroneous data does not support FMCSA's mission to reduce the number of commercial motor vehicle crashes on our nation's roadways. Monitoring the completeness of the crash fields is important to FMCSA and the States. Any significant changes in reporting should be evaluated further to determine if corrective actions are needed.

Note: Any field counted as incomplete indicates that the data may not have been entered into SAFETYNET properly or may not have been collected on the crash report form.

#### Definitions

**Event Date Range Analyzed (1 month)** - One month period of analysis

**Crash Records Evaluated** - Number of crash records analyzed during one month period

**# Records** - Number of records determined to have complete information in specified field

**% Records** - Percentage of records determined to have complete information in specified field

### Crash Timeliness: Monthly Analysis

The 'Monthly Analysis' report presents the number of crash records reported to FMCSA within 90 days of the crash event broken down by 1 month increments for the 12-month analysis period. Each month was analyzed for reporting crash records within the FMCSA standard of 90 days. The data for this report is based on MCMIS fatal and non-fatal crash records that represent interstate and intrastate carriers and includes large truck and bus vehicle types.

The graph illustrates the monthly analysis results for crash timeliness. The results for each month are plotted against the FMCSA standard for reporting crash records within 90 days - 'Good' reporting is achieved at 85%. Fluctuations in reporting may be observed. Any significant changes in reporting should be evaluated further to determine if corrective actions are needed.

Crash events that occurred during the 12-month analysis period were included in this analysis. FMCSA calculates the number of days an event takes to be reported to FMCSA by calculating the number of days from the crash event to the date the record was sent to MCMIS. The calculation only considers the first time the record was uploaded to MCMIS; uploading a record more than once to MCMIS does not negatively impact timeliness.

- Definitions**
- Event Date Range Analyzed (1 month)** - One month period of analysis
  - # Records with Upload Date > 90 Days** - Number of records reported more than 90 days after the crash event
  - % Records with Upload Date > 90 Days** - Percentage of records reported more than 90 days after the crash event. The percentage is calculated by dividing the number of records reported more than 90 days by the number of interstate & intrastate crash records
  - # Records with Upload Date <= 90 Days** - Number of records reported less than or equal to 90 days after the crash event
  - % Records with Upload Date <= 90 Days** - Percentage of records reported less than or equal to 90 days after the crash event. The percentage is calculated by dividing the number of records reported less than or equal to 90 days by the number of interstate & intrastate crash records
  - # Interstate & Intrastate Crash Records** - Total number of crash records reported to MCMIS during the 1-month period

### Crash Timeliness: Frequency of Record Uploads to MCMIS

The 'Frequency of Record Uploads to MCMIS' report presents the frequency of crash records uploaded to MCMIS and highlights how often there were more than three days between uploads. The data for this report is based on MCMIS crash records that were added, changed, deleted or rejected during an upload from SAFETYNET to MCMIS. The records include all interstate and intrastate carriers, and large truck and bus vehicle types.

The crash timeliness standard is a measurement of crash records reported to FMCSA within 90 days of the crash event. States that upload crash records to MCMIS on a consistent basis usually are in compliance with the timeliness standard. Monitoring the frequency of uploads to MCMIS may improve a State's crash timeliness measure in the State Safety Data Quality evaluation.

The graph illustrates the total number of crash record uploads to MCMIS for the most recent three years. The frequency of days between uploads is captured into two groups: less than or equal to three days and greater than three days. This summary data is displayed in the corresponding table below the graph.

The dates of each upload to MCMIS are listed in the second table of this report. They are organized by month for the most recent 15 months. Rows in the table are highlighted to indicate the number of days between record uploads to MCMIS was greater than three days. The number of days between uploads to MCMIS is the difference between two consecutive upload dates.

Any significant changes in reporting should be evaluated further to determine if corrective actions are needed.

- Definitions - 1<sup>st</sup> Table**
- Year** - Upload year
  - Count of "# Days Since Last Upload" > 3** - Count of number of uploads with more than 3 days between uploads
  - Count of "# Days Since Last Upload" <= 3** - Count of number of uploads with 3 days or less between uploads
  - # Uploads per Year** - Total number of uploads per year

- Definitions - 2<sup>nd</sup> Table**
- MCMIS Crash Upload Date** - Date of crash record upload to MCMIS
  - # Days Since Last Upload** - The difference in days between two consecutive upload dates
  - # Crash Records Uploaded** - Number of crash records uploaded per day

### Crash Accuracy: Records Reported by Agency and Badge Number

The 'Records Reported by Agency and Badge Number' report presents the number of crash records that were matched and unmatched to a company registered in MCMIS by reporting agency and officer badge number. The data for this report is based on MCMIS fatal and non-fatal crash records for 12 months that represent interstate carriers and intrastate carriers transporting hazardous material and includes large truck and bus vehicle types. The reporting agency/badge number analysis provides supportive information when analyzing the relationship between the number of matched crash records in MCMIS and the agency/officer responsible for reporting the crash record information. Note: Agency and officer badge numbers identified as 'blank' indicate that the data may not have been entered into SAFETYNET properly or may not have been collected on the crash report form.

Crash records entered per FMCSA's "Procedures for Entering Crashes without Carrier Identification into SAFETYNET" were not included in this analysis.

- Definitions**
- Agency** - Name of agency recording the crash event information
  - Officer Badge #** - Badge # of officer recording the crash event information
  - # UnMatched Records** - Number of records unmatched to a company registered in MCMIS by agency and badge #
  - % UnMatched Records** - Percentage of records unmatched to a company registered in MCMIS by agency and badge #. The percentage is calculated by dividing the number of unmatched records by the number of interstate & HM intrastate crash records
  - # Matched Records** - Number of records matched to a company registered in MCMIS by agency and badge #
  - % Matched Records** - Percentage of records matched to a company registered in MCMIS by agency and badge #. The percentage is calculated by dividing the number of matched records by the number of interstate & HM intrastate crash records
  - # Interstate & HM Intrastate Crash Records** - Total number of matched and unmatched crash records

## Inspection Timeliness: Monthly Analysis

The 'Monthly Analysis' report presents the number of inspection records reported to FMCSA within 21 days of the inspection event broken down by 1 month increments for the 12-month analysis period. Each month was analyzed for reporting inspection records within the FMCSA standard of 21 days. The data for this report is based on MCMIS inspection records that represent interstate and intrastate carriers and includes large truck and bus vehicle types.

The graph illustrates the monthly analysis results for inspection timeliness. The results for each month are plotted against the FMCSA standard for reporting inspection records within 21 days - 'Good' reporting is achieved at 85%. Fluctuations in reporting may be observed. Any significant changes in reporting should be evaluated further to determine if corrective actions are needed.

Inspection events that occurred during the 12-month analysis period were included in this analysis. FMCSA calculates the number of days an event takes to be reported to FMCSA by calculating the number of days from the inspection event to the date the record was sent to MCMIS. The calculation only considers the first time the record was uploaded to MCMIS; uploading a record more than once to MCMIS does not negatively impact timeliness.

### Definitions

**Event Date Range Analyzed (1 month)** - One month period of analysis

**# Records with Upload Date > 21 Days** - Number of records reported more than 21 days after the inspection event

**% Records with Upload Date > 21 Days** - Percentage of records reported more than 21 days after the inspection event. The percentage is calculated by dividing the number of records reported more than 21 days by the number of interstate & intrastate inspection records

**# Records with Upload Date <= 21 Days** - Number of records reported less than or equal to 21 days after the inspection event

**% Records with Upload Date <= 21 Days** - Percentage of records reported less than or equal to 21 days after the inspection event. The percentage is calculated by dividing the number of records reported less than or equal to 21 days by the number of interstate & intrastate inspection records

**# Interstate & Intrastate Inspection Records** - Total number of inspection records reported to MCMIS during the 1-month period

## Inspection Timeliness: Records Reported by Inspector ID

The 'Records Reported by Inspector ID' report presents the number of inspection records reported to FMCSA within 21 days of the inspection event by inspection identification number. The data for this report is based on MCMIS inspection records for 12 months that represent interstate and intrastate carriers and includes large truck and bus vehicle types.

The inspection identification number analysis provides supportive information when analyzing the relationship between the number of inspection records reported within 21 days and the inspector responsible for reporting the inspection record information. Note: Inspector ID numbers identified as 'blank' indicate that the inspector ID number data may not have been entered into SAFETYNET properly or may not have been collected on the inspection report form.

Inspection events that occurred during the 12-month analysis period were included in this analysis. FMCSA calculates the number of days an event takes to be reported to FMCSA by calculating the number of days from the inspection event to the date the record was sent to MCMIS. The calculation only considers the first time the record was uploaded to MCMIS; uploading a record more than once to MCMIS does not negatively impact timeliness.

### Definitions

**Inspector ID #** - Identification # of inspector recording the inspection event information

**# Records with Upload Date > 21 Days** - Number of records reported more than 21 days after the inspection event

**% Records with Upload Date > 21 Days** - Percentage of records reported more than 21 days after the inspection event. The percentage is calculated by dividing the number of records reported more than 21 days by the number of interstate & intrastate inspection records

**# Records with Upload Date <= 21 Days** - Number of records reported less than or equal to 21 days after the inspection event

**% Records with Upload Date <= 21 Days** - Percentage of records reported less than or equal to 21 days after the inspection event. The percentage is calculated by dividing the number of records reported less than or equal to 21 days by the number of interstate & intrastate inspection records

**# Interstate & Intrastate Inspection Records** - Total number of inspection records reported to MCMIS during the 12-month period

## Inspection Timeliness: Records Reported by Inspection Facility Type and Inspection Level

The 'Records Reported by Inspection Facility Type & Inspection Level' report presents the number of inspection records reported to FMCSA within 21 days of the inspection event by the facility type and the inspection level. The first table presents a summary of all inspections by facility type, and the second table summarizes the reporting of inspection records by inspection level. The data for this report is based on MCMIS inspection records for 12 months that represent interstate and intrastate carriers and includes large truck and bus vehicle types.

The inspection facility type and inspection level analysis provides supportive information when analyzing the relationship between the number of inspection records reported within 21 days and the type and location of the inspection event.

Inspection events that occurred during the 12-month analysis period were included in this analysis. FMCSA calculates the number of days an event takes to be reported to FMCSA by calculating the number of days from the inspection event to the date the record was sent to MCMIS. The calculation only considers the first time the record was uploaded to MCMIS; uploading a record more than once to MCMIS does not negatively impact timeliness.

### Definitions

**Facility Type** - Type of inspection facility - either a fixed site or at the roadside

**Inspection Level** - The North American Standard Truck Inspection procedures have identified six levels of inspections: full, walk-around, driver-only, special study, terminal and radioactive materials

**# Records with Upload Date > 21 Days** - Number of records reported more than 21 days after the inspection event

**% Records with Upload Date > 21 Days** - Percentage of records reported more than 21 days after the inspection event. The percentage is calculated by dividing the number of records reported more than 21 days by the number of interstate & intrastate inspection records

**# Records with Upload Date <= 21 Days** - Number of records reported less than or equal to 21 days after the inspection event

**% Records with Upload Date <= 21 Days** - Percentage of records reported less than or equal to 21 days after the inspection event. The percentage is calculated by dividing the number of records reported less than or equal to 21 days by the number of interstate & intrastate inspection records

**# Interstate & Intrastate Inspection Records** - Total number of inspection records reported to MCMIS during the 12-month period

## Inspection Timeliness: Records Reported by County

The 'Records Reported by County' report presents the number of inspection records reported to FMCSA within 21 days of the inspection event by the county the inspection was conducted in. The data for this report is based on MCMIS inspection records for 12 months that represent interstate and intrastate carriers and includes large truck and bus vehicle types. Analyzing the correlation between inspection timeliness and the county (location) of the inspection event may identify location-specific reporting issues and target improvement efforts.

Inspection records are uploaded to MCMIS via a State's SAFETYNET system. All records are assigned a report number by the State's SAFETYNET system. This report presents a summary of the inspection records uploaded from the State's SAFETYNET system and the county the inspection event occurred in. In general, the counties identified are all within the boundaries of the selected State. However, there are cases where inspections are coordinated across multiple States. In these situations, additional counties outside the State boundaries are listed in their report.

Note: county names identified as "blank" indicate that the county data may not have been entered into SAFETYNET properly or may not have been collected on the inspection report form.

Inspection events that occurred during the 12-month analysis period were included in this analysis. FMCSA calculates the number of days an event takes to be reported to FMCSA by calculating the number of days from the inspection event to the date the record was sent to MCMIS. The calculation only considers the first time the record was uploaded to MCMIS; uploading a record more than once to MCMIS does not negatively impact timeliness.

### Definitions

**County** - County name where inspection event occurred

**# Records with Upload Date > 21 Days** - Number of records reported more than 21 days after the inspection event

**% Records with Upload Date > 21 Days** - Percentage of records reported more than 21 days after the inspection event. The percentage is calculated by dividing the number of records reported more than 21 days after the inspection event by the total number of interstate & intrastate inspection records

**# Records with Upload Date <= 21 Days** - Number of records reported less than or equal to 21 days after the inspection event

**% Records with Upload Date <= 21 Days** - Percentage of records reported less than or equal to 21 days after the inspection event. The percentage is calculated by dividing the number of records reported less than or equal to 21 days after the inspection event by the total number of interstate and intrastate inspection records

**# Interstate & Intrastate Inspection Records** - Total number of inspection records reported to MCMIS during the 12-month period

## Inspection Accuracy: Records Reported by Inspector ID

The 'Records Reported by Inspector ID' report presents the number of inspection records that were matched and unmatched to a company registered in MCMIS by inspection identification number. The data for this report is based on MCMIS inspection records for 12 months that represent interstate carriers and intrastate carriers transporting hazardous material and includes large truck and bus vehicle types. The inspection identification number analysis provides supportive information when analyzing the relationship between the number of matched inspection records in MCMIS and the inspector responsible for reporting the inspection record information. Note: Inspector ID numbers identified as 'blank' indicate that the inspector ID number data may not have been entered into SAFETYNET properly or may not have been collected on the inspection report form.

### Definitions

**Inspector ID #** - Identification ID # of the inspector recording the inspection event information

**# Unmatched Records** - Number of records unmatched to a company registered in MCMIS by inspector #

**% Unmatched Records** - Percentage of records unmatched to a company registered in MCMIS by inspector ID #. The percentage is calculated by dividing the number of unmatched records by the number of interstate & HM intrastate inspection records

**# Matched Records** - Number of records matched to a company registered in MCMIS by inspector ID #

**% Matched Records** - Percentage of records matched to a company registered in MCMIS by inspector ID #. The percentage is calculated by dividing the number of matched records by the number of interstate & HM intrastate inspection records

**# Interstate & HM Intrastate Inspection Records** - Total number of matched and unmatched inspection records

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