

2014

# Pocket Guide to Large Truck and Bus Statistics



U.S. Department of Transportation

**Federal Motor Carrier Safety Administration**

Office of Analysis, Research, and Technology

October 2014 Update

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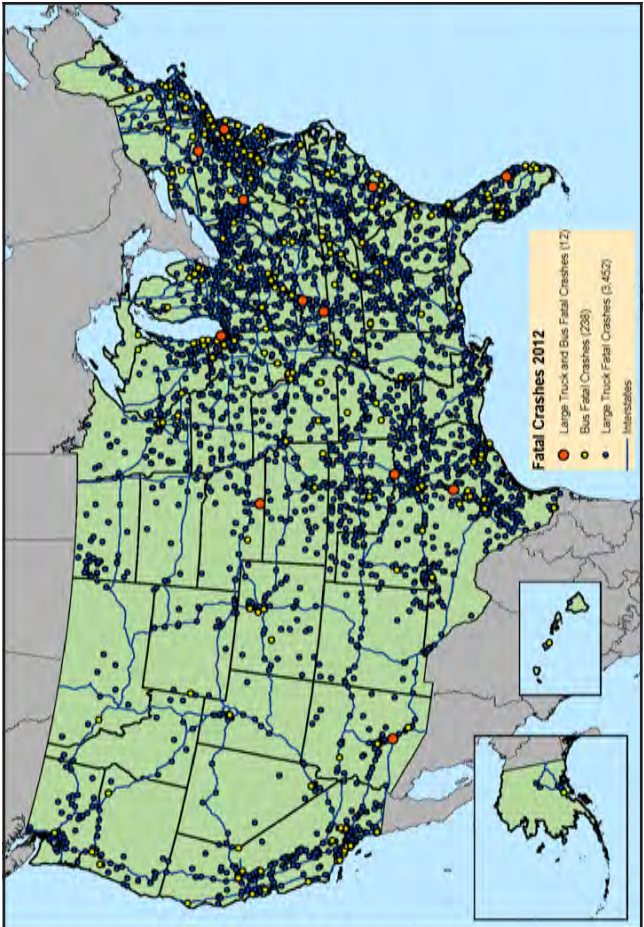
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## INTRODUCTION

The Federal Motor Carrier Safety Administration's (FMCSA) *2014 Pocket Guide to Large Truck and Bus Statistics* highlights the Agency's role in collecting and analyzing crash data and statistics to support its mission to prevent commercial motor vehicle-related fatalities and injuries. It can serve as a valuable, compact resource for industry representatives, Federal agencies, and other individuals interested in motor carrier safety regulations and performance data.

The primary mission of FMCSA is to reduce crashes, injuries, and fatalities involving large trucks and buses. In carrying out its safety mandate, FMCSA develops and enforces data-driven regulations that balance motor carrier safety with efficiency. For more information about the Agency and its safety-based initiatives, please visit [www.fmcsa.dot.gov](http://www.fmcsa.dot.gov).

# LOCATIONS OF LARGE TRUCK AND BUS FATAL CRASHES, 2012



Note: In 2012, there were 3,702 fatal crashes involving large trucks and buses.  
Data Source: National Highway Traffic Safety Administration (NHTSA), Fatality Analysis Reporting System (FARS), 2012.

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## THE MOTOR CARRIER MANAGEMENT INFORMATION SYSTEM

FMCSA created and currently maintains the Motor Carrier Management Information System (MCMIS). MCMIS contains information on the safety fitness of commercial motor carriers (large trucks and buses) and hazardous materials (HM) carriers subject to the Federal Motor Carrier Safety Regulations (FMCSRs) and Hazardous Materials Regulations (HMRs). This system contains crash, census, and inspection files created to monitor and develop safety standards for commercial motor vehicles (CMVs) operating in interstate commerce. The crash file includes information on all trucks and buses involved in reportable crashes. The census file includes all descriptive information on every motor carrier in MCMIS and is updated weekly. The inspection file contains data from State and Federal inspection actions involving motor carriers operating in the United States. Most of the data included in MCMIS are collected at the roadside by State personnel under the Motor Carrier Safety Assistance Program (MCSAP).

# 1. OVERVIEW: LARGE TRUCKS AND BUSES

In 2012, among the 253,639,386 total registered vehicles in the United States, 8,190,286 were single-unit trucks (straight trucks), 2,469,094 were combination trucks (tractor-trailers), and 764,509 were buses. FMCSA regulates all registered commercial motor vehicles (CMVs) that operate interstate or that carry hazardous materials (HM).

As of December 2013, there were 539,033 interstate motor carriers and intrastate HM motor carriers with recent activity operating in the United States:

- 251,817 were for-hire carriers
- 230,596 were private carriers
- 43,654 were both for-hire and private carriers
- 12,966 were neither for-hire nor private carriers (e.g., government).

FMCSA regulates all drivers involved in interstate commerce or intrastate transportation of HM, as well as all Commercial Driver's License (CDL) drivers both interstate and intrastate. Approximately 5.6 million CMV drivers operate in the United States:

- 3.5 million operate interstate
  - 3 million hold CDLs
- 2.2 million operate intrastate
  - 900,000 hold CDLs.

Notes: The number of carriers and/or drivers in operation at any given time is subject to change, due to enforcement actions, business failures, licensing issues, and other factors. Interstate and some intrastate driver counts are based on motor carrier registration data contained in the Motor Carrier Management Information System (MCMIS); intrastate driver counts for States that do not require intrastate carriers to register with FMCSA are estimated via extrapolation of State data. The numbers on this page may not add to totals due to rounding.

Data Sources: Registration Data - Federal Highway Administration (FHWA), *Highway Statistics 2012*; Carrier Counts - FMCSA, MCMIS, data snapshot as of December 27, 2013; CMV Driver Counts - FMCSA, MCMIS, data snapshot as of January 24, 2014.

## 1-1 Registered Vehicles in the United States, 2009-2012

| Year | All Vehicles | Large Trucks | Buses   |
|------|--------------|--------------|---------|
| 2009 | 254,212,610  | 10,973,214   | 841,993 |
| 2010 | 250,070,048  | 10,770,054   | 846,051 |
| 2011 | 253,215,681  | 10,270,693   | 666,064 |
| 2012 | 253,639,386  | 10,659,380   | 764,509 |

Data Source: Federal Highway Administration (FHWA), *Highway Statistics 2012*, Table VM-1.

## 1-2 Million Vehicle Miles Traveled (VMT) in the United States, 2009-2012

| Year | All Vehicles | Large Trucks | Buses  |
|------|--------------|--------------|--------|
| 2009 | 2,956,764    | 288,306      | 14,387 |
| 2010 | 2,967,266    | 286,527      | 13,770 |
| 2011 | 2,950,402    | 267,594      | 13,807 |
| 2012 | 2,968,815    | 268,318      | 14,755 |

Data Source: Federal Highway Administration (FHWA), *Highway Statistics 2012*, Table VM-1.

## 1-3 Motorcoach Passenger Trips in the United States and Canada by Fleet Size, 2012

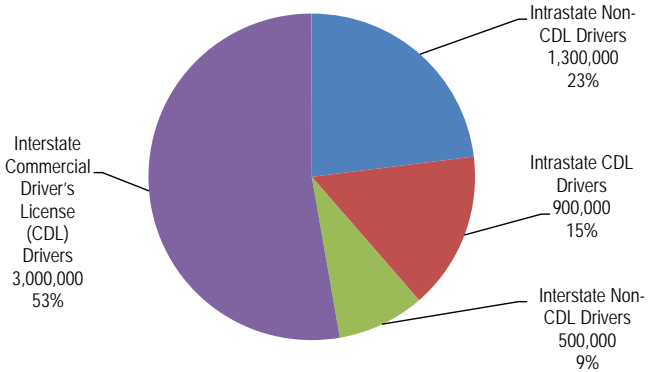
| Motorcoach Fleet Size | Passenger Trips:   |               | Average Passenger Trips per: |                |
|-----------------------|--------------------|---------------|------------------------------|----------------|
|                       | Total              | Percent       | Motorcoach                   | Carrier        |
| 100 or more           | 221,274,000        | 34.7%         | 23,800                       | 11,064,700     |
| 50 to 99              | 73,152,000         | 11.4%         | 22,500                       | 1,493,900      |
| 25 to 49              | 84,773,000         | 13.3%         | 14,000                       | 543,400        |
| 10 to 24              | 103,982,000        | 16.3%         | 13,500                       | 221,700        |
| 1 to 9                | 154,261,000        | 24.2%         | 11,600                       | 47,300         |
| <b>Industry Total</b> | <b>637,442,000</b> | <b>100.0%</b> | <b>16,100</b>                | <b>161,200</b> |

Note: Percentages may not sum to 100 percent because of rounding.

Data Source: *Motorcoach Census 2013: A Study of the Size and Activity of the Motorcoach Industry in the United States and Canada in 2012*; prepared for the American Bus Association (ABA) Foundation by John Dunham and Associates, February 27, 2014.



## 1-4 Commercial Motor Vehicle (CMV) Drivers Operating in the United States, 2013



Notes: The number of carriers and/or drivers in operation at any given time is subject to change, due to enforcement actions, business failures, licensing issues, and other factors. Interstate and some intrastate driver counts are based on motor carrier registration data contained in the Motor Carrier Management Information System (MCMIS); intrastate driver counts for States that do not require intrastate carriers to register with FMCSA are estimated via extrapolation of State data.

Data Source: FMCSA, MCMIS, data snapshot as of January 24, 2014.

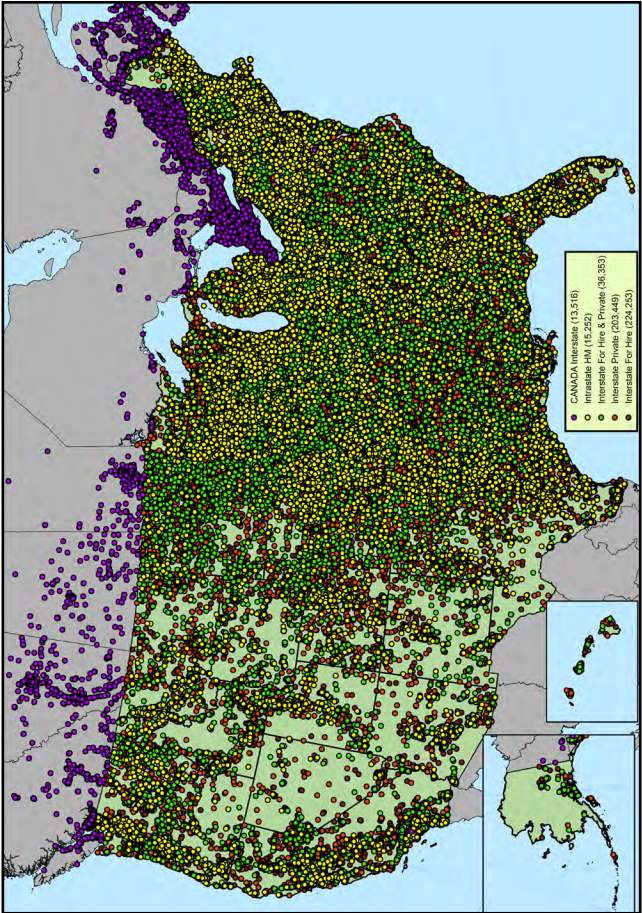
## 1-5 Active Motor Carriers by Type, 2009-2013

| Year                           | 2009           | 2010           | 2011           | 2012           | 2013           |
|--------------------------------|----------------|----------------|----------------|----------------|----------------|
| Interstate Freight             | 493,505        | 501,338        | 500,905        | 507,690        | 511,211        |
| Interstate Passenger           | 11,313         | 11,804         | 11,819         | 12,184         | 12,384         |
| Intrastate Hazardous Materials | 12,933         | 14,228         | 15,122         | 15,549         | 15,438         |
| <b>Total</b>                   | <b>517,751</b> | <b>527,370</b> | <b>527,846</b> | <b>535,423</b> | <b>539,033</b> |

Notes: Company counts are estimates based on motor carriers in the Motor Carrier Management Information System (MCMIS) with recent activity, defined as those carriers that have had an inspection, a crash, a compliance review, a safety audit, an FMCSA Motor Carrier Identification Report (Form MCS-150) update, a vehicle registration activity, or a Unified Carrier Registration (UCR) system payment activity in the past 3 years, or have current operating authority indicated in the FMCSA Licensing and Insurance (L&I) database.

Data Source: FMCSA, MCMIS, data snapshots as of December 18, 2009, December 17, 2010, December 16, 2011, December 14, 2012, and December 27, 2013.

## 1-6 Carriers by Headquarters (Domicile) Location, 2013



Notes: Domicile refers to the headquarters location for a carrier. This map displays only interstate carriers and intrastate hazardous materials (HM) carriers. Intrastate non-HM carriers are not displayed. The number of carriers depicted in this map may not be the same as reported elsewhere by FMCSA. Due to potential differences in reporting dates and quality issues with carrier addresses, this map may not include all current carriers. Additionally, the number of carriers that operate at any given time is subject to change due to enforcement actions, business failures, and other factors. Data Source: FMCSA, Motor Carrier Management Information System (MCMIS), as of March 2013.

## 1-7 FMCSA-Regulated Carriers, 2009-2013

| Motor Carrier Census Data           | 2009      | 2010      | 2011      | 2012      | 2013      |
|-------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Active Carriers with a USDOT Number | 517,751   | 527,370   | 527,846   | 535,423   | 539,033   |
| Power Units                         | 3,971,773 | 4,116,259 | 4,176,144 | 4,279,988 | 4,604,338 |
| Commercial Drivers                  | 2,994,043 | 3,031,032 | 3,062,967 | 3,100,006 | 3,174,105 |
| Total Drivers                       | 4,100,819 | 4,216,408 | 4,266,852 | 4,357,244 | 4,409,242 |
| Mexico Commercial Zone Carriers     | 5,649     | 7,360     | 7,070     | 7,930     | 8,296     |
| Power Units                         | 25,875    | 29,783    | 29,403    | 31,790    | 33,009    |
| Commercial Drivers                  | 20,475    | 23,367    | 23,071    | 25,032    | 25,984    |
| Total Drivers                       | 24,004    | 27,698    | 27,291    | 29,577    | 30,618    |

Note: Only interstate carriers and intrastate hazardous materials (HM) carriers with recent activity are included in this table.

Data Source: FMCSA, Motor Carrier Management Information System (MCMIS), data snapshots as of December 18, 2009, December 17, 2010, December 16, 2011, December 14, 2012, and December 27, 2013.

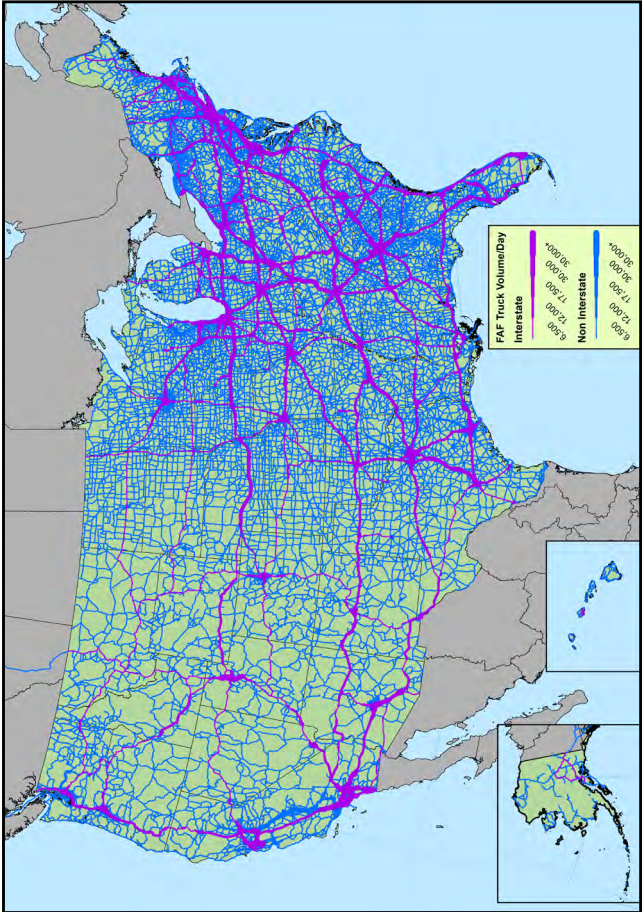
## 1-8 FMCSA-Regulated Carriers by Domicile, 2013

| Motor Carrier Census Data         | United States | Mexico | Canada  | Other | All Domiciles |
|-----------------------------------|---------------|--------|---------|-------|---------------|
| Active Carriers with USDOT Number | 516,618       | 8,990  | 13,214  | 211   | 539,033       |
| Power Units                       | 4,470,153     | 34,052 | 99,080  | 1,053 | 4,604,338     |
| Commercial Drivers                | 3,060,089     | 26,626 | 87,239  | 151   | 3,174,105     |
| Total Drivers                     | 4,269,615     | 31,743 | 106,825 | 1,059 | 4,409,242     |

Note: Only interstate carriers and intrastate hazardous materials (HM) carriers with recent activity are included in this table.

Data Source: FMCSA, Motor Carrier Management Information System (MCMIS), data snapshot as of December 27, 2013.

## 1-9 Average Daily Truck Traffic on the National Highway System, 2007



Note: In this map, both private and for-hire trucks are included; trucks that are part of multiple modes and mail, or trucks that move in conjunction with domestic air cargo are not included.

Data Source: Federal Highway Administration (FHWA), Freight Analysis Framework (FAF), June 2012 update (FAF Version 3.4), accessed January 2014.

## 1-10 Freight Shipments within the United States by Mode and Weight (in Millions of Tons)

| Mode           | 2002          | 2007          | 2011          |
|----------------|---------------|---------------|---------------|
| Truck          | 11,943        | 13,336        | 11,924        |
| Rail           | 1,978         | 2,024         | 2,053         |
| Water          | 680           | 655           | 645           |
| Air*           | 5             | 5             | 6             |
| Pipeline       | 1,574         | 1,674         | 1,912         |
| Multiple modes | 320           | 568           | 583           |
| Other**        | 716           | 617           | 499           |
| <b>Total</b>   | <b>17,215</b> | <b>18,879</b> | <b>17,622</b> |

\*Includes air and truck-air.

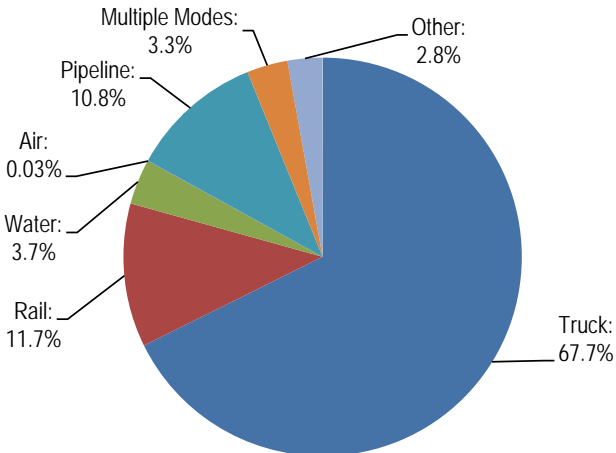
\*\*Includes other, unknown, and no domestic mode.

Note: Includes domestic trade and the domestic portion of imports and exports.

Data Source: Federal Highway Administration (FHWA), Freight Analysis

Framework (FAF), Version 3.4, available at <http://faf.ornl.gov> as of October 2013.

## 1-11 Percent of Total Domestic Freight Moved by Mode, 2011



Note: Includes domestic trade and the domestic portion of imports and exports.

Data Source: Federal Highway Administration (FHWA), Freight Analysis

Framework (FAF), Version 3.4, available at <http://faf.ornl.gov> as of October 2013.

## 1-12 Household Goods Carriers and Brokers Operating in the United States, 2009-2013

| Year | Active Household Goods Carriers | Household Goods Brokers Registered | Property Brokers Registered |
|------|---------------------------------|------------------------------------|-----------------------------|
| 2009 | 4,732                           | 816                                | 20,141                      |
| 2010 | 4,986                           | 813                                | 20,089                      |
| 2011 | 5,052                           | 841                                | 20,884                      |
| 2012 | 4,773                           | 776                                | 21,565                      |
| 2013 | 4,898                           | 522                                | 13,710                      |

Note: A broker is an individual, partnership, or corporation that receives payment for arranging the transportation of property or household goods belonging to others by using an authorized motor carrier.

Data Source: FMCSA, Licensing & Insurance (L&I), data snapshots as of December 18, 2009, December 17, 2010, December 16, 2011, December 14, 2012, and December 27, 2013.

## 1-13 New Entrant Safety Audits, 2009-2013

| Year | Safety Audits | Safety Audit Pass Rate |
|------|---------------|------------------------|
| 2009 | 36,780        | 99.52%                 |
| 2010 | 32,770        | 62.88%                 |
| 2011 | 34,476        | 67.80%                 |
| 2012 | 34,246        | 75.40%                 |
| 2013 | 32,361        | 80.14%                 |

Note: A new entrant is a motor carrier that applies for a U.S. Department of Transportation (USDOT) number in order to initiate operations in interstate commerce or the intrastate transportation of hazardous materials (HM). Carriers remain in the new entrant program until passing the safety audit and have been in business for 18 months.

Data Source: FMCSA, Motor Carrier Management Information System (MCMIS), data snapshots as of December 18, 2009, December 17, 2010, December 16, 2011, December 14, 2012, and December 27, 2013.

## 1-14 Driver and Passenger Safety Belt Usage by Commercial Motor Vehicle (CMV) Body Type, 2010 versus 2013

| CMV Body Type            | 2010  | 2013  |
|--------------------------|-------|-------|
| Buses                    |       |       |
| Commercial Bus           | 47.0% | 74.4% |
| School Bus               | 81.7% | 85.9% |
| 15-Passenger Van         | 87.9% | 86.3% |
| Bobtail                  | 70.9% | 86.0% |
| Large Trucks             |       |       |
| Intermodal Container     | 75.3% | 81.5% |
| Dump                     | 64.5% | 69.5% |
| Flatbed                  | 74.0% | 82.0% |
| Van (Enclosed Box Truck) | 80.2% | 85.7% |
| Tanker                   | 82.5% | 85.1% |
| Other                    | 73.3% | 81.0% |

Notes: The Seat Belt Usage by Commercial Motor Vehicle Drivers (SBUCMVD) Survey was not conducted in 2011 or 2012. In 2013, a total of 27,157 CMVs, 27,157 drivers, and 1,730 other occupants were observed at 1,004 sites. In 2010, a total of 26,830 CMVs, 26,830 drivers, and 1,929 other occupants were observed at 998 sites. Only driver belt use is observed for buses (for the purposes of this study, 15-passenger vans are counted as buses).

Data Source: FMCSA, SBUCMVD 2013 Survey. For more information, refer to: <http://www.fmcsa.dot.gov/safety/safety-belt/safety-belt-studies>.

## 1-15 CMV Driver and Passenger Safety Belt Usage by Occupant Type, 2010 versus 2013

| Occupant Type   | 2010  | 2013  |
|-----------------|-------|-------|
| All Occupants   | 77.1% | 83.0% |
| Drivers         | 78.1% | 83.7% |
| Other Occupants | 64.0% | 72.9% |

Notes: The Seat Belt Usage by Commercial Motor Vehicle Drivers (SBUCMVD) Survey was not conducted in 2011 or 2012. In 2013, a total of 27,157 CMVs, 27,157 drivers, and 1,730 other occupants were observed at 1,004 sites. In 2010, a total of 26,830 CMVs, 26,830 drivers, and 1,929 other occupants were observed at 998 sites. Only driver belt use is observed for buses (for the purposes of this study, 15-passenger vans are counted as buses). "Other occupants" are right-front passengers.

Data Source: FMCSA, SBUCMVD 2013 Survey. For more information, refer to: <http://www.fmcsa.dot.gov/safety/safety-belt/safety-belt-studies>.

## 2. ROADSIDE INSPECTIONS AND VIOLATIONS

### What is a Roadside Inspection?

A roadside inspection is an examination of an individual commercial motor vehicle (CMV) and/or driver by an authorized safety inspector. Approximately 95 percent of all inspections are conducted by State inspectors, with the remainder conducted by Federal inspectors. The inspection determines whether the driver and/or the CMV is in compliance with the Federal Motor Carrier Safety Regulations (FMCSRs) or the Hazardous Materials Regulations (HMRs), as appropriate. Serious violations result in the issuance of vehicle or driver out-of-service (OOS) orders. These violations must be corrected before the affected driver or vehicle can return to service.

#### 2-1 Roadside Inspections Conducted by Federal and State Inspectors, 2009-2013

|                      | 2009      | 2010      | 2011      | 2012      | 2013      |
|----------------------|-----------|-----------|-----------|-----------|-----------|
| Roadside Inspections | 3,553,337 | 3,603,291 | 3,591,789 | 3,541,408 | 3,497,937 |
| State                | 3,430,111 | 3,457,961 | 3,453,150 | 3,403,412 | 3,364,250 |
| Federal              | 123,226   | 145,330   | 138,639   | 137,996   | 133,687   |

Data Source: Source: FMCSA, Motor Carrier Management Information System (MCMIS), August 22, 2014, Archive Data (calendar years [CY] 2009-2011), data snapshot as of January 24, 2014 (CY 2012-2013).

#### 2-2 Safety Inspectors, Federal and State, 2009-2013

| Inspector Type    | 2009   | 2010   | 2011   | 2012   | 2013   |
|-------------------|--------|--------|--------|--------|--------|
| Safety Inspectors | 14,408 | 14,194 | 14,061 | 13,882 | 13,726 |
| State             | 13,821 | 13,627 | 13,496 | 13,325 | 13,184 |
| Federal           | 587    | 567    | 565    | 557    | 542    |

Note: Not all personnel indicated are assigned full time to conducting inspections. Data Source: FMCSA, Motor Carrier Management Information System (MCMIS), August 22, 2014, Archive Data (calendar years [CY] 2009-2011), data snapshot as of January 24, 2014 (CY 2012-2013).



## 2-3 Roadside Inspection OOS Rates, 2009-2013

| Type of Roadside Inspection | 2009      | 2010      | 2011      | 2012      | 2013      |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|
| Driver Inspections*         | 3,456,814 | 3,500,238 | 3,473,037 | 3,426,482 | 3,387,479 |
| With OOS Violation          | 191,860   | 182,946   | 172,659   | 167,643   | 165,068   |
| Driver OOS Rate             | 5.55%     | 5.23%     | 4.97%     | 4.89%     | 4.87%     |
| Vehicle Inspections**       | 2,364,001 | 2,433,846 | 2,420,935 | 2,429,783 | 2,394,977 |
| With OOS Violation          | 502,677   | 481,801   | 492,706   | 489,044   | 477,057   |
| Vehicle OOS Rate            | 21.26%    | 19.80%    | 20.35%    | 20.13%    | 19.92%    |
| Hazmat Inspections***       | 222,985   | 211,219   | 205,920   | 203,675   | 202,989   |
| With OOS Violation          | 10,207    | 9,039     | 7,841     | 7,640     | 7,917     |
| Hazmat OOS Rate             | 4.58%     | 4.28%     | 3.81%     | 3.75%     | 3.90%     |

\*Driver Inspections were computed based on inspection levels I, II, III, and VI.

\*\*Vehicle Inspections were computed based on inspection levels I, II, V, and VI.

\*\*\*Hazmat Inspections were computed based on inspection levels I, II, III, IV, V, and VI when hazardous materials were present.

Note: Roadside inspection OOS rates depicted in this table include both large trucks and buses. For more information on roadside inspections and inspection levels, please refer to <https://csa.fmcsa.dot.gov>.

Data Source: FMCSA, Motor Carrier Management Information System (MCMIS), data snapshot as of January 24, 2014.

## 2-4 Roadside Inspections by Inspection Level, 2009-2013

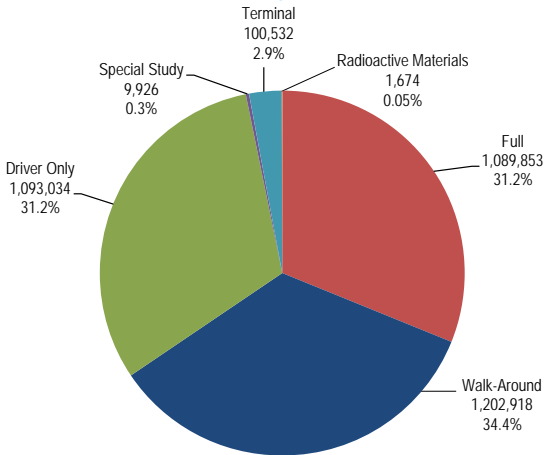
| Inspection Level          | 2009             | 2010             | 2011             | 2012             | 2013             |
|---------------------------|------------------|------------------|------------------|------------------|------------------|
| I. Full                   | 1,137,684        | 1,154,341        | 1,138,385        | 1,113,801        | 1,089,853        |
| With OOS Violation(s)*    | 301,316          | 285,858          | 288,146          | 284,255          | 273,452          |
| II. Walk-Around           | 1,144,980        | 1,188,065        | 1,172,671        | 1,209,654        | 1,202,918        |
| With OOS Violation(s)*    | 266,932          | 261,452          | 262,710          | 262,035          | 260,278          |
| III. Driver Only          | 1,171,775        | 1,155,364        | 1,159,573        | 1,101,229        | 1,093,034        |
| With OOS Violation(s)*    | 90,914           | 82,836           | 77,070           | 70,087           | 69,102           |
| IV. Special Study         | 17,561           | 14,081           | 11,281           | 10,396           | 9,926            |
| With OOS Violation(s)*    | 2,974            | 2,291            | 1,914            | 1,639            | 1,568            |
| V. Terminal               | 78,962           | 88,972           | 107,471          | 104,530          | 100,532          |
| With OOS Violation(s)*    | 5,783            | 5,215            | 6,740            | 6,453            | 6,054            |
| VI. Radioactive Materials | 2,375            | 2,468            | 2,408            | 1,798            | 1,674            |
| With OOS Violation(s)*    | 25               | 28               | 27               | 18               | 11               |
| <b>Total</b>              | <b>3,553,337</b> | <b>3,603,291</b> | <b>3,591,789</b> | <b>3,541,408</b> | <b>3,497,937</b> |

\*Out-of-service (OOS) violation numbers are based on roadside inspections. For example, in 2012, there were 1.1 million Level I inspections. Out of all the Level I inspections completed, 284,242 resulted in *at least one* OOS violation.

Note: For more information on roadside inspections and inspection levels, please refer to <https://csa.fmcsa.dot.gov>.

Data Source: FMCSA, Motor Carrier Management Information System (MCMIS), data snapshot as of January 24, 2014.

## 2-5 Roadside Inspections by Inspection Level, 2013



Note: For more information on roadside inspections and inspection levels, please refer to <https://csa.fmcsa.dot.gov>.

Data Source: FMCSA, Motor Carrier Management Information System (MCMIS), data snapshot as of January 24, 2014.

## 2-6 Roadside Inspections by Carrier Fleet Size, 2009-2013

| Carrier Fleet Size              | 2009             | 2010             | 2011             | 2012             | 2013             |
|---------------------------------|------------------|------------------|------------------|------------------|------------------|
| Very Small<br>(1-6 Power Units) | 953,618          | 1,016,442        | 1,022,176        | 1,019,098        | 1,015,492        |
| Small<br>(7-20 Power Units)     | 566,895          | 588,234          | 592,551          | 604,720          | 608,760          |
| Medium<br>(21-100 Power Units)  | 695,191          | 715,865          | 723,876          | 726,249          | 722,373          |
| Large<br>(>100 Power Units)     | 928,976          | 893,975          | 882,412          | 863,055          | 852,992          |
| Unknown                         | 408,657          | 388,775          | 370,774          | 328,286          | 298,320          |
| <b>Total</b>                    | <b>3,553,337</b> | <b>3,603,291</b> | <b>3,591,789</b> | <b>3,541,408</b> | <b>3,497,937</b> |

Note: Carriers listed as having zero power units are included in the "Unknown" category.  
Data Source: FMCSA, Motor Carrier Management Information System (MCMIS), data snapshot as of January 24, 2014.

## 2-7 Roadside Inspections by Carrier Operation, 2009-2013

| Carrier Operation | 2009             | 2010             | 2011             | 2012             | 2013             |
|-------------------|------------------|------------------|------------------|------------------|------------------|
| Interstate        | 2,964,068        | 3,018,946        | 2,966,096        | 2,918,833        | 2,902,833        |
| Intrastate        | 589,269          | 584,345          | 625,693          | 622,575          | 595,104          |
| <b>Total</b>      | <b>3,553,337</b> | <b>3,603,291</b> | <b>3,591,789</b> | <b>3,541,408</b> | <b>3,497,937</b> |

Data Source: FMCSA, Motor Carrier Management Information System (MCMIS), data snapshot as of January 24, 2014.

## 2-8 Roadside Inspections by Gross Combination Weight Rating (GCWR), 2009-2013

| GCWR                   | 2009             | 2010             | 2011             | 2012             | 2013             |
|------------------------|------------------|------------------|------------------|------------------|------------------|
| <10,000 pounds         | 11,023           | 12,996           | 18,352           | 17,238           | 17,018           |
| 10,000 - 26,000 pounds | 322,701          | 399,489          | 418,517          | 418,241          | 423,108          |
| >26,000 pounds         | 1,629,869        | 2,242,437        | 2,441,367        | 2,509,338        | 2,520,301        |
| Unknown                | 1,589,744        | 948,369          | 713,553          | 596,591          | 537,510          |
| <b>Total</b>           | <b>3,553,337</b> | <b>3,603,291</b> | <b>3,591,789</b> | <b>3,541,408</b> | <b>3,497,937</b> |

Note: GCWR are based on Roadside Inspection Reports as reported in MCMIS.  
Data Source: FMCSA, Motor Carrier Management Information System (MCMIS), data snapshot as of January 24, 2014.

## 2-9 Most Frequent Driver Violations in Roadside Inspections, 2013

| Violation Code | Category                    | Violation Description  | Number of Violations | Number of OOS Violations |
|----------------|-----------------------------|--|----------------------|--------------------------|
| 395.8          | No Log/Log Not Current      | Log Violation (General/Form and Manner)  | 156,920              | 137                      |
| 395.8F1        | No Log/Log Not Current      | Driver's Record of Duty Status Not Current   | 98,544               | 133                      |
| 391.11B2       | All Other Driver Violations | Non-English Speaking Driver  | 87,793               | 3,864                    |
| 392.2SLLS2     | Traffic Enforcement         | State/Local Laws - Speeding 6-10 Miles Per Hour Over the Speed Limit                 | 64,635               | 5                        |
| 392.16         | Seat Belt                   | Failing to Use Seat Belt While Operating CMV   | 55,624               | 6                        |
| 391.41AF       | Medical Certificate         | Operating a Property-Carrying Vehicle without Possessing a Valid Medical Certificate | 52,287               | 945                      |
| 395.3A2 PROP   | 11/14 Hours                 | Driving beyond 14 Hour Duty Period (Property-Carrying Vehicle)                       | 51,911               | 22,437                   |
| 392.2C         | Traffic Enforcement         | Failure to Obey Traffic Control Device   | 41,885               | 26                       |
| 391.41A        | Medical Certificate         | Driver Not in Possession of Medical Certificate                                      | 41,076               | 2,497                    |
| 395.8E         | No Log/Log Not Current      | False Report of Driver's Record of Duty Status                                       | 35,707               | 26,860                   |
| 395.8A         | No Log/Log Not Current      | No Driver's Record of Duty Status  | 28,835               | 25,446                   |
| 395.3A3 PROP   | 11/14 Hours                 | Driving beyond 11 Hour Driving Limit in a 14 Hour Period (Property-Carrying Vehicle) | 28,207               | 12,526                   |
| 395.8K2        | No Log/Log Not Current      | Driver Failing to Retain Previous 7 Days' Logs                                       | 26,675               | 22,541                   |
| 392.2SLLS1     | Traffic Enforcement         | State/Local Laws - Speeding 1-5 Miles Per Hour Over the Speed Limit                  | 26,391               | 2                        |
| 392.2SLLS3     | Traffic Enforcement         | State/Local Laws - Speeding 11-14 Miles Per Hour Over the Speed Limit                | 24,336               | 1                        |
| 391.45B        | Medical Certificate         | Expired Medical Examiner's Certificate   | 23,056               | 771                      |
| 392.82A1       | All Other Driver Violations | Using a Hand-Held Mobile Telephone While Operating a CMV                             | 15,965               | 4                        |
| 392.2SLLS4     | Traffic Enforcement         | State/Local Laws - Speeding 15 or More Miles Per Hour Over The Speed Limit           | 15,038               | 4                        |
| 383.23A2       | All Other Driver Violations | Operating a CMV without a CDL  | 14,829               | 13,957                   |
| 392.2LV        | Traffic Enforcement         | Lane Restriction Violation   | 13,580               | 2                        |

Notes: Total number of driver inspections in calendar year (CY) 2013: 3,387,479. Total number of driver violations in CY 2013: 1,047,496. Total number of driver out-of-service (OOS) violations in CY 2013: 192,072. Only the top 20 driver violations (based on frequency of occurrence) are listed in this table.

Data Source: FMCSA, Motor Carrier Management Information System (MCMIS), data snapshot as of January 24, 2014.

## 2-10 Most Frequent Vehicle Violations in Roadside Inspections, 2013

| Violation Code | Category                  | Violation Description  | Number of Violations | Number of OOS Violations |
|----------------|---------------------------|--|----------------------|--------------------------|
| 393.9          | Lighting                  | Operating Vehicle Not Having the Required Operable Lamps                     | 503,614              | 44,356                   |
| 393.75C        | Tires                     | Tire—Other: Tread Depth Less than 2/32 of Inch                               | 209,600              | 17,302                   |
| 393.11         | Lighting                  | No/Defective Lighting Devices/Reflective Devices/Projected                   | 205,214              | 5,891                    |
| 393.47E        | Brakes, All Others        | Clamp/Roto-Chamber Type Brake(s) Out of Adjustment                           | 204,911              | 277                      |
| 396.3A1        | All Other Vehicle Defects | Inspection/Repair and Maintenance Parts and Accessories                      | 177,498              | 24,847                   |
| 396.5B         | All Other Vehicle Defects | Oil and/or Grease Leak   | 173,161              | 2,119                    |
| 393.95A        | Emergency Equipment       | No/Discharged/Unsecured Fire Extinguisher                                    | 151,150              | 24                       |
| 393.45B2       | Brakes, All Others        | Failing to Secure Brake Hose/Tubing Against Mechanical Damage                | 149,930              | 14,919                   |
| 396.17C        | Periodic Inspection       | Operating a CMV Without Periodic Inspection                                  | 146,890              | 122                      |
| 393.53B        | Brakes, All Others        | Automatic Brake Adjuster - CMV Manufactured on or After 10/20/1994—Air Brake | 100,083              | 6                        |
| 393.9TS        | Lighting                  | Inoperative Turn Signal  | 99,947               | 43,018                   |
| 393.78         | Windshield                | Windshield Wipers Inoperative/Defective                                      | 87,047               | 352                      |
| 396.3A1B       | Brakes, All Others        | Brakes (General)   | 71,295               | 13,401                   |
| 393.25F        | Lighting                  | Stop Lamp Violations   | 70,814               | 23,445                   |
| 393.48A        | Brakes, All Others        | Inoperative/Defective Brakes   | 68,714               | 18,303                   |
| 393.95F        | Emergency Equipment       | No/Insufficient Warning Devices  | 65,523               | 49                       |
| 393.60C        | Windshield                | Damaged or Discolored Windshield   | 61,415               | 92                       |
| 393.9H         | Lighting                  | Inoperative Head Lamps   | 57,161               | 711                      |
| 393.75A2       | Tires                     | Tire—Tread and/or Sidewall Separation  | 57,063               | 5,778                    |
| 393.45D        | Brakes, All Others        | Brake Connections with Leaks/Constrictions                                   | 54,409               | 3,907                    |

Notes: Total number of vehicle inspections in calendar year (CY) 2013: 2,394,977. Total number of vehicle violations in CY 2013: 4,118,869. Total number of vehicle out-of-service (OOS) violations in CY 2013: 660,334. Only the top 20 vehicle violations (based on frequency of occurrence) are listed in this table.

Data Source: FMCSA, Motor Carrier Management Information System (MCMIS), data snapshot as of January 24, 2014.

## 2-11 Traffic Enforcement Inspections, 2009-2013

| Activity Summary  | 2009    | 2010    | 2011    | 2012    | 2013    |
|---|---------|---------|---------|---------|---------|
| Number of Traffic Enforcement Inspections                 | 720,699 | 622,184 | 569,077 | 470,600 | 380,830 |
| With Moving Violations                                    | 255,584 | 231,639 | 211,791 | 193,662 | 200,699 |
| With Drug & Alcohol Violations                            | 1,533   | 1,272   | 1,202   | 1,136   | 900     |
| With Railroad Crossing Violations                         | 372     | 374     | 409     | 392     | 284     |
| With Non-specified State Law/<br>Miscellaneous Violations | 501,868 | 415,248 | 376,222 | 290,724 | 189,612 |

Notes: One inspection may result in more than one violation; therefore, totals may not equal the sum of all components. The traffic enforcement program involves the enforcement of 24 moving and non-moving driver violations, which are included in the driver violation portion of the roadside inspection procedures. Roadside inspections that result in only drug- or alcohol-related violations are excluded as traffic enforcement type inspections. Due to the variation in descriptions of traffic enforcement violations among the States, it is often difficult to aggregate and report them on a national level.

Data Source: FMCSA, Motor Carrier Management Information System (MCMIS), data snapshot as of January 24, 2014.

## 2-12 Traffic Enforcement Violations, 2009-2013

| Activity Summary                                     | 2009    | 2010    | 2011    | 2012    | 2013    |
|--|---------|---------|---------|---------|---------|
| Number of Traffic Enforcement Violations             | 900,328 | 757,731 | 683,605 | 554,628 | 428,520 |
| Moving Violations                                    | 264,678 | 240,025 | 219,359 | 199,609 | 207,980 |
| Drug & Alcohol Violations                            | 1,869   | 1,541   | 1,421   | 1,369   | 1,112   |
| Railroad Crossing Violations                         | 376     | 376     | 409     | 395     | 286     |
| Non-specified State Law/<br>Miscellaneous Violations | 633,405 | 515,789 | 462,416 | 353,255 | 219,142 |

Notes: The traffic enforcement program involves the enforcement of 24 moving and non-moving driver violations, which are included in the driver violation portion of the roadside inspection procedures. Roadside inspections that result in only drug- or alcohol-related violations are excluded as traffic enforcement type inspections. Due to the variation in descriptions of traffic enforcement violations among the States, it is often difficult to aggregate and report them on a national level.

Data Source: FMCSA, Motor Carrier Management Information System (MCMIS), data snapshot as of January 24, 2014.

### 3. REVIEWS

This chapter provides summarized data for the past 5 years on all types of reviews conducted on motor carriers that transport property or passengers in interstate or intrastate commerce. Reviews are conducted to investigate potential safety violations, to investigate complaints, or in response to a carrier's request for a change in safety rating. It is intended that through education, heightened safety regulation awareness, and the enforcement effects of reviews, motor carriers will improve the safety of their commercial vehicle operations and, ultimately, reduce their involvement in crashes.

The reviews covered include, but are not limited to, Motor Carrier Safety Reviews, Cargo Tank Facility Reviews, Shipper Reviews, Compliance Reviews (CRs), and Compliance, Safety, Accountability (CSA) Reviews. CSA is an FMCSA safety program designed to improve large truck and bus safety and prevent crashes, injuries, and fatalities related to commercial motor vehicles (CMVs). It has introduced an enforcement and compliance model that allows FMCSA and its State Partners to contact more carriers earlier in order to address safety deficiencies before crashes occur. The CSA program provides a nationwide system for making the roads safer for motor carriers and the public alike.

For more information on reviews, please refer to:  
<http://ai.fmcsa.dot.gov/SafetyProgram/Review.aspx>.

### 3-1 Reviews by Type, 2009-2013

| Review Type   | 2009          | 2010          | 2011          | 2012          | 2013          |
|---|---------------|---------------|---------------|---------------|---------------|
| Motor Carrier Safety Compliance Reviews (CRs)                 | 16,178        | 13,784        | 5,513         | 0             | 0             |
| Compliance, Safety, Accountability (CSA) Onsite Comprehensive | 544           | 994           | 2,816         | 6,739         | 5,827         |
| CSA Onsite Focused / Focused CR                               | 662           | 1,320         | 8,228         | 10,706        | 8,709         |
| CSA Offsite   | 406           | 698           | 597           | 541           | 401           |
| Cargo Tank Facility Reviews                                   | 109           | 143           | 94            | 89            | 86            |
| Shipper Reviews   | 368           | 416           | 283           | 328           | 268           |
| Non-Rated Reviews (excludes Security Contact Review & CSA)    | 1,992         | 2,393         | 1,502         | 1,705         | 2,632         |
| <b>Total Reviews</b>  | <b>20,258</b> | <b>19,748</b> | <b>19,033</b> | <b>20,107</b> | <b>17,922</b> |

Data Source: FMCSA, Motor Carrier Management Information System (MCMIS), data snapshot as of January 24, 2014.

### 3-2 Passenger Carrier Reviews, 2009-2013

| Carriers by Vehicle Type | 2009  | 2010  | 2011  | 2012  | 2013  |
|--------------------------|-------|-------|-------|-------|-------|
| Any Passenger Vehicles*  | 2,119 | 1,613 | 2,049 | 1,596 | 2,636 |
| Motorcoaches             | 1,247 | 1,055 | 1,224 | 937   | 1,938 |
| School Buses             | 515   | 322   | 384   | 230   | 334   |
| Vans                     | 435   | 354   | 585   | 523   | 645   |
| Mini Buses               | 471   | 385   | 587   | 430   | 763   |
| Limousines               | 222   | 137   | 261   | 207   | 271   |

\*The "Any Passenger Vehicles" row might not equal the sum of subcategories for a given row due to carriers applying for multiple passenger authority at the time of the application.

Notes: Passenger carriers were those carriers who registered to transport passengers and owned or leased at least one passenger vehicle (motorcoach, school bus, van, mini-bus, or limousine) at the time of the review.

Data Source: FMCSA, Motor Carrier Management Information System (MCMIS), data snapshot as of January 24, 2014.



### 3-3 Reviews by Reason for Review, 2009-2013

| Reason for Review                                     | 2009          | 2010          | 2011          | 2012          | 2013          |
|---|---------------|---------------|---------------|---------------|---------------|
| Compliance, Safety, Accountability (CSA) 100% States* | 1,452         | 3,111         | 4,316         | 3,976         | 3,371         |
| Carrier Request                                       | 453           | 281           | 85            | 50            | 50            |
| Complaint   | 1,559         | 1,478         | 921           | 747           | 551           |
| Compliance Review                                     | 0             | 61            | 4,169         | 4,134         | 4,374         |
| Conditional Carrier                                   | 1,693         | 1,118         | 4             | 0             | 0             |
| Enforcement Follow-Up                                 | 426           | 228           | 156           | 63            | 68            |
| Focused Compliance Review (CR)                        | 0             | 24            | 6,319         | 8,975         | 7,193         |
| Priority List   | 8,243         | 6,873         | 46            | 10            | 1             |
| Safety Audit Conversion                               | 382           | 113           | 101           | 72            | 62            |
| Unsatisfactory Follow-Up                              | 277           | 174           | 84            | 26            | 29            |
| Other   | 5,773         | 6,287         | 2,832         | 2,054         | 2,223         |
| <b>Total</b>  | <b>20,258</b> | <b>19,748</b> | <b>19,033</b> | <b>20,107</b> | <b>17,922</b> |

\*CSA 100% States include States that have implemented the complete suite of CSA Investigations that were conducted due to deficiencies identified by the CSA Safety Measurement System (SMS).

Data Source: FMCSA, Motor Carrier Management Information System (MCMIS), data snapshot as of January 24, 2014.

### 3-4 Reviews by Carrier Fleet Size, 2009-2013

| Carrier Fleet Size           | 2009          | 2010          | 2011          | 2012          | 2013          |
|------------------------------|---------------|---------------|---------------|---------------|---------------|
| Very Small (1-6 Power Units) | 8,603         | 8,288         | 8,257         | 8,670         | 7,976         |
| Small (7-20 Power Units)     | 5,764         | 5,594         | 5,514         | 5,735         | 5,050         |
| Medium (21-100 Power Units)  | 4,114         | 3,974         | 3,654         | 3,911         | 3,382         |
| Large (>100 Power Units)     | 1,324         | 1,353         | 1,205         | 1,331         | 1,125         |
| Unknown                      | 453           | 539           | 403           | 460           | 389           |
| <b>Total</b>                 | <b>20,258</b> | <b>19,748</b> | <b>19,033</b> | <b>20,107</b> | <b>17,922</b> |

Notes: Carriers listed as having zero power units are included in the "Unknown" category.

Data Source: FMCSA, Motor Carrier Management Information System (MCMIS), data snapshot as of January 24, 2014.

## 4. CRASHES

In 2012, there were 30,800 fatal crashes on the Nation's roadways, 3,702 (12.0 percent) of which involved at least one large truck or bus. In addition, there were an estimated 5,584,000 nonfatal crashes, 367,000 (6.6 percent) of which involved at least one large truck or bus.

### Data Sources:

**FARS:** Maintained by the National Highway Traffic Safety Administration (NHTSA), the Fatality Analysis Reporting System (FARS) is an annual census of fatal crashes involving motor vehicles traveling on public trafficways. For more information on FARS, refer to <http://www.nhtsa.gov/FARS>.

**GES:** Also maintained by NHTSA, the General Estimates System (GES) is a probability-based nationally representative sample of all police-reported fatal, injury, and property-damage-only (PDO) crashes, released annually. For more information on GES, refer to <http://www.nhtsa.gov/NASS>.

**MCMIS:** Maintained by FMCSA, the Motor Carrier Management Information System (MCMIS) Crash File contains data on commercial trucks and buses in fatal, injury, and towaway crashes (crashes in which at least one vehicle is disabled as a result of the crash and transported away from the crash scene). Crash severity thresholds and vehicle type definitions in MCMIS differ slightly from FARS and GES, and all tables are noted accordingly. All MCMIS crash data presented are considered preliminary for 18 months. For more information on MCMIS, refer to <http://mcmiscatalog.fmcsa.dot.gov>.

## Crash Severity Levels

This *Pocket Guide* includes data on police-reported crashes, which include fatal, injury, and property-damage-only (PDO) crashes.

1. **Fatal crashes.** The source for fatal crashes is the Fatality Analysis Reporting System (FARS).
2. **Injury crashes.** The source for injury crashes is the General Estimates System (GES).
3. **PDO crashes.** The source for PDO crashes is GES.

For more information on crash severity levels, refer to the Model Minimum Uniform Crash Criteria (MMUCC) at <http://www.mmucc.us>.

## Vehicles in Crashes

**Large Trucks:** FARS and GES define a large truck as a truck with a gross vehicle weight rating (GVWR) greater than 10,000 pounds. The Motor Carrier Management Information System (MCMIS) defines a large truck as a truck, used for commercial purposes, with a GVWR or gross combination weight rating (GCWR) greater than 10,000 pounds, or any vehicle carrying hazardous materials (HM) that requires placarding, regardless of weight.

**Buses:** A bus is defined as any motor vehicle designed primarily to transport nine or more persons, including the driver.

## 4-1 Total Crashes by Vehicle Type, 2009-2012

| Year | Large Trucks | Buses  | Large Trucks and Buses | Any Vehicles |
|------|--------------|--------|------------------------|--------------|
| 2009 | 286,000      | 56,000 | 341,000                | 5,505,000    |
| 2010 | 266,000      | 54,000 | 318,000                | 5,419,000    |
| 2011 | 273,000      | 56,000 | 329,000                | 5,338,000    |
| 2012 | 317,000      | 54,000 | 371,000                | 5,615,000    |

Notes: Individual subtotals may not add to the totals due to the potential for double counting (e.g., crashes involving both a truck and a bus). A large truck is defined here as a truck with a gross vehicle weight rating (GVWR) greater than 10,000 pounds. A bus is defined as any motor vehicle designed primarily to transport nine or more persons, including the driver. These numbers include fatal crash data from FARS and injury crash and property-damage-only (PDO) crash data from the General Estimates System (GES).

Data Sources: National Highway Traffic Safety Administration (NHTSA), Fatality Analysis Reporting System (FARS) and GES.

## 4-2 Fatal Crashes by Vehicle Type, 2009-2012

| Year | Large Trucks | Buses | Large Trucks and Buses | Any Vehicles |
|------|--------------|-------|------------------------|--------------|
| 2009 | 2,983        | 221   | 3,193                  | 30,862       |
| 2010 | 3,271        | 247   | 3,512                  | 30,296       |
| 2011 | 3,365        | 243   | 3,593                  | 29,867       |
| 2012 | 3,464        | 250   | 3,702                  | 30,800       |

Notes: Individual subtotals may not add to the totals due to the potential for double counting (e.g., crashes involving both a truck and a bus). A large truck is defined here as a truck with a gross vehicle weight rating (GVWR) greater than 10,000 pounds. A bus is defined as any motor vehicle designed primarily to transport nine or more persons, including the driver.

Data Sources: National Highway Traffic Safety Administration (NHTSA), Fatality Analysis Reporting System (FARS).

### 4-3 Injury Crashes by Vehicle Type, 2009-2012

| Year | Large Trucks | Buses  | Large Trucks and Buses | Any Vehicles |
|------|--------------|--------|------------------------|--------------|
| 2009 | 51,000       | 9,000  | 60,000                 | 1,517,000    |
| 2010 | 56,000       | 12,000 | 67,000                 | 1,542,000    |
| 2011 | 60,000       | 13,000 | 73,000                 | 1,530,000    |
| 2012 | 73,000       | 12,000 | 85,000                 | 1,634,000    |

Notes: Individual subtotals may not add to the totals due to the potential for double counting (e.g., crashes involving both a truck and a bus). A large truck is defined here as a truck with a gross vehicle weight rating (GVWR) greater than 10,000 pounds. A bus is defined as any motor vehicle designed primarily to transport nine or more persons, including the driver.

Data Sources: National Highway Traffic Safety Administration (NHTSA), General Estimates System (GES).

### 4-4 Property-Damage-Only (PDO) Crashes by Vehicle Type, 2009-2012

| Year | Large Trucks | Buses  | Large Trucks and Buses | Any Vehicles |
|------|--------------|--------|------------------------|--------------|
| 2009 | 232,000      | 47,000 | 278,000                | 3,957,000    |
| 2010 | 207,000      | 42,000 | 247,000                | 3,847,000    |
| 2011 | 210,000      | 43,000 | 252,000                | 3,778,000    |
| 2012 | 241,000      | 42,000 | 282,000                | 3,950,000    |

Notes: Individual subtotals may not add to the totals due to the potential for double counting (e.g., crashes involving both a truck and a bus). A large truck is defined here as a truck with a gross vehicle weight rating (GVWR) greater than 10,000 pounds. A bus is defined as any motor vehicle designed primarily to transport nine or more persons, including the driver.

Data Sources: National Highway Traffic Safety Administration (NHTSA), General Estimates System (GES).

## 4-5 Large Truck and Bus Fatality Rates Per 100 Million Total Vehicle Miles Traveled (VMT) by State, 2011-2012

| State                  | 2011         |                  |               | 2012         |                  |               |
|------------------------|--------------|------------------|---------------|--------------|------------------|---------------|
|                        | Fatalities   | Million VMT      | Fatality Rate | Fatalities   | Million VMT      | Fatality Rate |
| Alabama                | 105          | 64,914           | 0.16          | 109          | 64,959           | 0.17          |
| Alaska                 | 1            | 4,593            | 0.02          | 5            | 4,792            | 0.10          |
| Arizona                | 74           | 59,574           | 0.12          | 89           | 60,129           | 0.15          |
| Arkansas               | 89           | 32,953           | 0.27          | 92           | 33,522           | 0.27          |
| California             | 296          | 320,784          | 0.09          | 277          | 326,272          | 0.08          |
| Colorado               | 53           | 46,606           | 0.11          | 62           | 46,769           | 0.13          |
| Connecticut            | 17           | 31,197           | 0.05          | 17           | 31,269           | 0.05          |
| Delaware               | 10           | 9,028            | 0.11          | 11           | 9,186            | 0.12          |
| D.C.                   | 2            | 3,568            | 0.06          | 2            | 3,572            | 0.06          |
| Florida                | 233          | 191,855          | 0.12          | 231          | 191,374          | 0.12          |
| Georgia                | 176          | 108,454          | 0.16          | 158          | 107,488          | 0.15          |
| Hawaii                 | 7            | 10,066           | 0.07          | 9            | 10,050           | 0.09          |
| Idaho                  | 21           | 15,937           | 0.13          | 13           | 16,315           | 0.08          |
| Illinois               | 132          | 103,234          | 0.13          | 134          | 104,578          | 0.13          |
| Indiana                | 144          | 76,485           | 0.19          | 116          | 78,923           | 0.15          |
| Iowa                   | 64           | 31,274           | 0.20          | 60           | 31,596           | 0.19          |
| Kansas                 | 65           | 30,021           | 0.22          | 66           | 30,572           | 0.22          |
| Kentucky               | 91           | 48,061           | 0.19          | 86           | 47,344           | 0.18          |
| Louisiana              | 88           | 46,513           | 0.19          | 108          | 46,889           | 0.23          |
| Maine                  | 18           | 14,248           | 0.13          | 12           | 14,199           | 0.08          |
| Maryland               | 46           | 56,221           | 0.08          | 73           | 56,476           | 0.13          |
| Massachusetts          | 39           | 54,792           | 0.07          | 22           | 55,940           | 0.04          |
| Michigan               | 71           | 94,754           | 0.07          | 81           | 94,548           | 0.09          |
| Minnesota              | 55           | 56,685           | 0.10          | 67           | 56,988           | 0.12          |
| Mississippi            | 76           | 38,851           | 0.20          | 53           | 38,667           | 0.14          |
| Missouri               | 105          | 68,789           | 0.15          | 100          | 68,504           | 0.15          |
| Montana                | 31           | 11,660           | 0.27          | 13           | 11,885           | 0.11          |
| Nebraska               | 33           | 19,093           | 0.17          | 45           | 19,277           | 0.23          |
| Nevada                 | 37           | 24,189           | 0.15          | 20           | 24,148           | 0.08          |
| New Hampshire          | 9            | 12,720           | 0.07          | 7            | 12,894           | 0.05          |
| New Jersey             | 64           | 73,094           | 0.09          | 70           | 74,225           | 0.09          |
| New Mexico             | 49           | 25,533           | 0.19          | 42           | 25,562           | 0.16          |
| New York               | 142          | 127,726          | 0.11          | 127          | 128,221          | 0.10          |
| North Carolina         | 128          | 103,772          | 0.12          | 129          | 104,950          | 0.12          |
| North Dakota           | 40           | 9,131            | 0.44          | 48           | 10,081           | 0.48          |
| Ohio                   | 123          | 111,990          | 0.11          | 159          | 112,715          | 0.14          |
| Oklahoma               | 116          | 47,464           | 0.24          | 125          | 47,872           | 0.26          |
| Oregon                 | 54           | 33,373           | 0.16          | 39           | 33,173           | 0.12          |
| Pennsylvania           | 169          | 99,204           | 0.17          | 177          | 98,884           | 0.18          |
| Rhode Island           | 1            | 7,901            | 0.01          | 4            | 7,807            | 0.05          |
| South Carolina         | 90           | 48,730           | 0.18          | 87           | 49,036           | 0.18          |
| South Dakota           | 12           | 9,002            | 0.13          | 20           | 9,113            | 0.22          |
| Tennessee              | 114          | 70,751           | 0.16          | 119          | 71,167           | 0.17          |
| Texas                  | 449          | 237,440          | 0.19          | 589          | 237,836          | 0.25          |
| Utah                   | 26           | 26,222           | 0.10          | 20           | 26,528           | 0.08          |
| Vermont                | 8            | 7,141            | 0.11          | 5            | 7,216            | 0.07          |
| Virginia               | 90           | 80,974           | 0.11          | 89           | 80,959           | 0.11          |
| Washington             | 40           | 56,955           | 0.07          | 48           | 56,762           | 0.08          |
| West Virginia          | 36           | 18,963           | 0.19          | 49           | 19,226           | 0.25          |
| Wisconsin              | 78           | 54,402           | 0.14          | 72           | 59,087           | 0.12          |
| Wyoming                | 26           | 9,245            | 0.28          | 27           | 9,271            | 0.29          |
| <b>National Totals</b> | <b>4,043</b> | <b>2,946,131</b> | <b>0.14</b>   | <b>4,183</b> | <b>2,968,815</b> | <b>0.14</b>   |

Notes: D.C. = District of Columbia. Fatality rate is equal to "Fatalities" divided by "Million VMT" multiplied by 100. A large truck is defined here as a truck with a gross vehicle weight rating (GVWR) greater than 10,000 pounds. A bus is defined as any motor vehicle designed primarily to transport nine or more persons, including the driver. Data Source: VMT - Federal Highway Administration (FHWA), *Highway Statistics 2012*; Fatalities - National Highway Traffic Safety Administration (NHTSA), Fatality Analysis Reporting System (FARS).

## 4-6 Large Trucks Involved in Fatal Crashes by State, 2009-2012

| State                | 2009         | 2010         | 2011         | 2012         |
|----------------------|--------------|--------------|--------------|--------------|
| Alabama              | 81           | 105          | 96           | 111          |
| Alaska               | 3            | 5            | 0            | 4            |
| Arizona              | 67           | 54           | 65           | 73           |
| Arkansas             | 80           | 79           | 101          | 85           |
| California           | 263          | 240          | 265          | 244          |
| Colorado             | 40           | 46           | 46           | 51           |
| Connecticut          | 15           | 23           | 14           | 14           |
| Delaware             | 7            | 9            | 10           | 10           |
| District of Columbia | 1            | 3            | 2            | 1            |
| Florida              | 179          | 179          | 201          | 194          |
| Georgia              | 135          | 145          | 169          | 149          |
| Hawaii               | 4            | 4            | 3            | 6            |
| Idaho                | 18           | 15           | 18           | 17           |
| Illinois             | 90           | 113          | 120          | 115          |
| Indiana              | 108          | 111          | 130          | 115          |
| Iowa                 | 63           | 90           | 49           | 65           |
| Kansas               | 51           | 71           | 58           | 59           |
| Kentucky             | 109          | 90           | 88           | 88           |
| Louisiana            | 74           | 93           | 81           | 102          |
| Maine                | 21           | 13           | 17           | 10           |
| Maryland             | 52           | 39           | 38           | 56           |
| Massachusetts        | 19           | 19           | 33           | 14           |
| Michigan             | 64           | 83           | 61           | 69           |
| Minnesota            | 50           | 77           | 53           | 54           |
| Mississippi          | 54           | 55           | 62           | 44           |
| Missouri             | 83           | 76           | 95           | 89           |
| Montana              | 21           | 13           | 24           | 11           |
| Nebraska             | 42           | 49           | 29           | 42           |
| Nevada               | 19           | 16           | 28           | 20           |
| New Hampshire        | 7            | 6            | 8            | 6            |
| New Jersey           | 65           | 59           | 59           | 61           |
| New Mexico           | 33           | 43           | 44           | 39           |
| New York             | 101          | 116          | 112          | 97           |
| North Carolina       | 116          | 104          | 118          | 132          |
| North Dakota         | 28           | 17           | 32           | 44           |
| Ohio                 | 108          | 123          | 113          | 146          |
| Oklahoma             | 78           | 88           | 100          | 124          |
| Oregon               | 29           | 49           | 48           | 28           |
| Pennsylvania         | 131          | 159          | 163          | 175          |
| Rhode Island         | 4            | 2            | 1            | 3            |
| South Carolina       | 78           | 61           | 79           | 79           |
| South Dakota         | 12           | 19           | 10           | 16           |
| Tennessee            | 86           | 89           | 101          | 107          |
| Texas                | 299          | 376          | 414          | 543          |
| Utah                 | 25           | 28           | 24           | 17           |
| Vermont              | 6            | 11           | 6            | 6            |
| Virginia             | 75           | 87           | 74           | 89           |
| Washington           | 30           | 27           | 35           | 44           |
| West Virginia        | 29           | 40           | 32           | 47           |
| Wisconsin            | 46           | 53           | 77           | 60           |
| Wyoming              | 12           | 22           | 27           | 27           |
| <b>U.S. Total</b>    | <b>3,211</b> | <b>3,494</b> | <b>3,633</b> | <b>3,802</b> |

Note: A large truck is defined here as a truck with a gross vehicle weight rating (GVWR) greater than 10,000 pounds.

Data Source: National Highway Traffic Safety Administration (NHTSA), Fatality Analysis Reporting System (FARS).

## 4-7 Large Truck Fatal Crash Statistics, 2009-2012

| Year | Large Truck                          |  |   |                             | Rates per 100 Million VMT            |                                   | Large Trucks Registered |
|------|--------------------------------------|--|---|-----------------------------|--------------------------------------|-----------------------------------|-------------------------|
|      | Fatal Crashes Involving Large Trucks | Occupant Fatalities in Large Truck Crashes | Total Fatalities in Large Truck Crashes | Million VMT by Large Trucks | Fatal Crashes Involving Large Trucks | Fatalities in Large Truck Crashes |                         |
| 1975 | 3,722                                | 961  | 4,483                                   | 81,330                      | 4.58                                 | 5.51                              | 5,362,369               |
| 1980 | 5,042                                | 1,262                                      | 5,971                                   | 108,491                     | 4.65                                 | 5.50                              | 5,790,653               |
| 1985 | 4,841                                | 977  | 5,743                                   | 123,504                     | 3.92                                 | 4.64                              | 5,996,337               |
| 1990 | 4,518                                | 705  | 5,272                                   | 146,252                     | 3.09                                 | 3.60                              | 6,195,876               |
| 1995 | 4,194                                | 648  | 4,918                                   | 178,156                     | 2.35                                 | 2.76                              | 6,719,421               |
| 2000 | 4,573                                | 754  | 5,282                                   | 205,520                     | 2.23                                 | 2.57                              | 8,022,649               |
| 2005 | 4,551                                | 804  | 5,240                                   | 222,523                     | 2.05                                 | 2.35                              | 8,481,999               |
| 2006 | 4,350                                | 805  | 5,027                                   | 222,513                     | 1.95                                 | 2.26                              | 8,819,007               |
| 2007 | 4,204                                | 805  | 4,822                                   | 304,178                     | 1.38                                 | 1.59                              | 10,752,019              |
| 2008 | 3,754                                | 682  | 4,245                                   | 310,680                     | 1.21                                 | 1.37                              | 10,873,275              |
| 2009 | 2,983                                | 499  | 3,380                                   | 288,306                     | 1.03                                 | 1.17                              | 10,973,214              |
| 2010 | 3,271                                | 530  | 3,686                                   | 286,527                     | 1.14                                 | 1.29                              | 10,770,054              |
| 2011 | 3,365                                | 640  | 3,781                                   | 267,594                     | 1.26                                 | 1.41                              | 10,270,693              |
| 2012 | 3,464                                | 697  | 3,921                                   | 268,318                     | 1.29                                 | 1.46                              | 10,659,380              |

Notes: A large truck is defined here as a truck with a gross vehicle weight rating (GVWR) greater than 10,000 pounds.

Data Sources: Vehicle Miles Traveled and Registered Vehicles - FHWA, *Highway Statistics 2012*; Fatal Crashes, Vehicles Involved, and Fatalities - National Highway Traffic Safety Administration (NHTSA), Fatality Analysis Reporting System (FARS).

## 4-8 Large Truck Injury Crash Statistics, 2009-2012

| Year | Injury Crashes Involving Large Trucks | Large Trucks Involved in Injury Crashes | Persons Injured in Large Truck Crashes | Million VMT by Large Trucks | Rates per 100 Million VMT             |  | Large Trucks Registered |
|------|---------------------------------------|---|--|-----------------------------|---------------------------------------|--|-------------------------|
|      |                                       |   |  |                             | Injury Crashes Involving Large Trucks | Persons Injured in Large Truck Crashes |                         |
| 2009 | 51,000                                | 53,000                                  | 74,000                                 | 288,306                     | 17.8                                  | 25.6                                   | 10,973,214              |
| 2010 | 56,000                                | 58,000                                  | 80,000                                 | 286,527                     | 19.5                                  | 27.9                                   | 10,770,054              |
| 2011 | 60,000                                | 63,000                                  | 88,000                                 | 267,594                     | 22.5                                  | 32.9                                   | 10,270,693              |
| 2012 | 73,000                                | 77,000                                  | 104,000                                | 268,318                     | 27.2                                  | 38.8                                   | 10,659,380              |

Notes: "Persons Injured" includes all nonfatally injured persons in injury and fatal crashes. A large truck is defined here as a truck with a gross vehicle weight rating (GVWR) greater than 10,000 pounds.

Data Sources: Vehicle Miles Traveled and Registered Vehicles: FHWA, *Highway Statistics 2012*. Injury Crashes, Vehicles Involved, and Persons Injured: National Highway Traffic Safety Administration (NHTSA), General Estimates System (GES).



## 4-9 Vehicle Occupants Killed in Large Truck Crashes by Vehicle Type, 2009-2012

| Occupant of:                   | 2009         | 2010         | 2011         | 2012         |
|--------------------------------|--------------|--------------|--------------|--------------|
| Passenger Car                  | 1,260        | 1,390        | 1,380        | 1,417        |
| Light Truck                    | 1,094        | 1,213        | 1,082        | 1,146        |
| Large Truck                    | 499          | 530          | 640          | 697          |
| Motorcycle                     | 176          | 162          | 221          | 250          |
| Bus                            | 2            | 4            | 11           | 10           |
| Other/Unknown                  | 28           | 28           | 19           | 30           |
| <b>Total Vehicle Occupants</b> | <b>3,059</b> | <b>3,327</b> | <b>3,353</b> | <b>3,550</b> |

Notes: A passenger car is defined as a motor vehicle used primarily for carrying passengers, including convertibles, sedans, and station wagons. A light truck is defined as a truck with a gross vehicle weight rating (GVWR) of 10,000 pounds or less, including pickups, vans, truck-based station wagons, and sport utility vehicles. A large truck is defined as a truck with a gross vehicle weight rating (GVWR) greater than 10,000 pounds. A bus is defined as any motor vehicle designed primarily to transport nine or more persons, including the driver.

Data Sources: Source: National Highway Traffic Safety Administration (NHTSA), Fatality Analysis Reporting System (FARS).

## 4-10 Nonmotorists Killed in Large Truck Crashes, 2009-2012

| Nonmotorist Type                      | 2009         | 2010         | 2011         | 2012         |
|---------------------------------------|--------------|--------------|--------------|--------------|
| Pedestrians                           | 259          | 280          | 335          | 298          |
| Pedalcyclists                         | 56           | 58           | 60           | 61           |
| Other/Unknown Nonmotorist             | 6            | 21           | 33           | 12           |
| Total Nonmotorist Fatalities          | 321          | 359          | 428          | 371          |
| <b>Total Fatalities</b>               | <b>3,380</b> | <b>3,686</b> | <b>3,781</b> | <b>3,921</b> |
| <b>Percent Nonmotorist Fatalities</b> | <b>9%</b>    | <b>10%</b>   | <b>11%</b>   | <b>9%</b>    |

Note: A large truck is defined as a truck with a gross vehicle weight rating (GVWR) greater than 10,000 pounds. A nonmotorist is defined as any person who is not an occupant of a motor vehicle including the following: pedestrians, pedalcyclists, or others such as skateboard riders, people riding on animals, and persons riding in other nonmotorized conveyances.

Data Source: National Highway Traffic Safety Administration (NHTSA), Fatality Analysis Reporting System (FARS).

## 4-11 Nonmotorists Killed in Bus Crashes, 2009-2012

| Nonmotorist Type                      | 2009       | 2010       | 2011       | 2012       |
|---------------------------------------|------------|------------|------------|------------|
| Pedestrians                           | 65         | 72         | 69         | 76         |
| Pedalcyclists                         | 4          | 17         | 10         | 12         |
| Other/Unknown Nonmotorist             | 1          | 0          | 1          | 0          |
| Total Nonmotorist Fatalities          | 70         | 89         | 80         | 88         |
| <b>Total Fatalities</b>               | <b>254</b> | <b>278</b> | <b>284</b> | <b>280</b> |
| <b>Percent Nonmotorist Fatalities</b> | <b>28%</b> | <b>32%</b> | <b>28%</b> | <b>31%</b> |

Notes: A bus is defined as any motor vehicle designed primarily to transport nine or more persons, including the driver. A nonmotorist is defined as any person who is not an occupant of a motor vehicle, including the following: pedestrians, pedalcyclists, or others such as skateboard riders, people riding on animals, and persons riding in other nonmotorized conveyances.

Data Sources: Fatal Crashes - National Highway Traffic Safety Administration (NHTSA), Fatality Analysis Reporting System (FARS); Injury and Property-Damage-Only (PDO) Crashes - NHTSA, General Estimates System (GES).

## 4-12 Large Truck and Work Zone Fatal Crash Statistics, 2009-2012

| Crash Type:   | 2009   |         | 2010   |         | 2011   |         | 2012   |         |
|---|--------|---------|--------|---------|--------|---------|--------|---------|
|   | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Large Truck Fatal Crashes   | 2,983  | 100.0%  | 3,271  | 100.0%  | 3,365  | 100.0%  | 3,464  | 100.0%  |
| Work Zone   | 131    | 4.4%    | 117    | 3.6%    | 145    | 4.3%    | 129    | 3.7%    |
| Not a Work Zone   | 2,852  | 95.6%   | 3,154  | 96.4%   | 3,220  | 95.7%   | 3,335  | 96.3%   |
| All Fatal Crashes   | 30,862 | 100.0%  | 30,296 | 100.0%  | 29,867 | 100.0%  | 30,800 | 100.0%  |
| Work Zone   | 589    | 1.9%    | 521    | 1.7%    | 533    | 1.8%    | 547    | 1.8%    |
| Not a Work Zone   | 30,273 | 98.1%   | 29,775 | 98.3%   | 29,334 | 98.2%   | 30,253 | 98.2%   |
| Percent of Work-Zone Fatal Crashes that Involved at Least One Large Truck | 22.2%  |         | 22.5%  |         | 27.2%  |         | 23.6%  |         |
| Percent of All Fatal Crashes that Involved at Least One Large Truck       | 9.7%   |         | 10.8%  |         | 11.3%  |         | 11.2%  |         |

Notes: "Not a Work Zone" counts includes crashes where location was unknown. A large truck is defined here as a truck with a gross vehicle weight rating (GVWR) greater than 10,000 pounds. A work zone is an area of a trafficway where construction, maintenance, or utility work activities are identified by warning signs/signals/indicators.

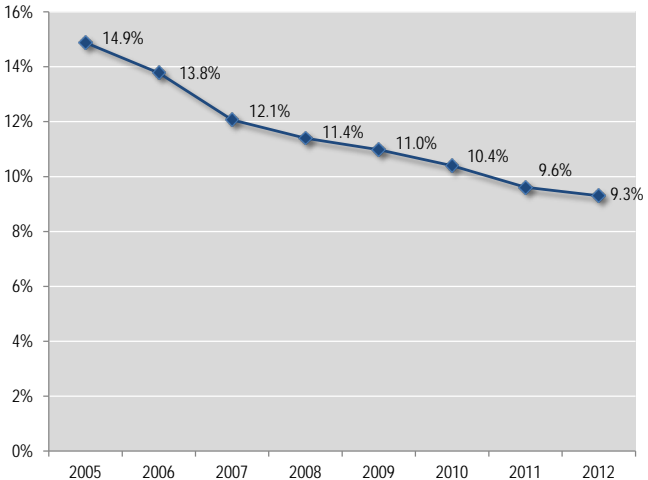
Data Sources: Fatal Crashes - National Highway Traffic Safety Administration (NHTSA), Fatality Analysis Reporting System (FARS)

### 4-13 Truck Weight Rating for Large Trucks in Fatal Crashes, 2010-2012

| Truck Weight Rating (Pounds) | 2010         |             | 2011         |             | 2012         |             |
|------------------------------|--------------|-------------|--------------|-------------|--------------|-------------|
|                              | Number       | Percent     | Number       | Percent     | Number       | Percent     |
| Class 2: 6,001 - 10,000      | 3            | 0.1%        | 4            | 0.1%        | 6            | 0.2%        |
| Class 3: 10,001 - 14,000     | 172          | 4.9%        | 275          | 7.6%        | 283          | 7.4%        |
| Class 4: 14,001 - 16,000     | 74           | 2.1%        | 100          | 2.8%        | 73           | 1.9%        |
| Class 5: 16,001 - 19,500     | 75           | 2.1%        | 82           | 2.3%        | 90           | 2.4%        |
| Class 6: 19,501 - 26,000     | 179          | 5.1%        | 193          | 5.3%        | 212          | 5.6%        |
| Class 7: 26,001 - 33,000     | 233          | 6.7%        | 218          | 6.0%        | 212          | 5.6%        |
| Class 8: >33,000             | 2,662        | 76.2%       | 2,678        | 73.7%       | 2,831        | 74.5%       |
| Unknown                      | 96           | 2.7%        | 83           | 2.3%        | 95           | 2.5%        |
| <b>Total</b>                 | <b>3,494</b> | <b>100%</b> | <b>3,633</b> | <b>100%</b> | <b>3,802</b> | <b>100%</b> |

Note: A large truck is defined here as a truck with a gross vehicle weight rating (GVWR) greater than 10,000 pounds.  
 Data Source: National Highway Traffic Safety Administration (NHTSA), Fatality Analysis Reporting System (FARS).

### 4-14 Percentage of Large Truck Drivers in Fatal Crashes Not Wearing Any Type of Safety Belt, 2005-2012



Note: A large truck is defined here as a truck with a gross vehicle weight rating (GVWR) greater than 10,000 pounds.  
 Data Source: National Highway Traffic Safety Administration (NHTSA), Fatality Analysis Reporting System (FARS).

## 4-15 Hazardous Materials (HM) Cargo Release in Crashes Involving Large Trucks with HM Placards, 2009-2013

| Cargo Release                  | Number of Large Trucks |              |              |              |              |
|--------------------------------|------------------------|--------------|--------------|--------------|--------------|
|                                | 2009                   | 2010         | 2011         | 2012         | 2013*        |
| Cargo Release: No              | 1,690                  | 1,813        | 2,011        | 1,911        | 1,582        |
| Cargo Release: Yes             | 270                    | 281          | 311          | 371          | 261          |
| Corrosives                     | 23                     | 21           | 20           | 25           | 29           |
| Explosives                     | 7                      | 3            | 11           | 12           | 5            |
| Flammable Liquid               | 122                    | 125          | 142          | 192          | 113          |
| Flammable Solids               | 1                      | 0            | 3            | 5            | 1            |
| Gases                          | 35                     | 34           | 41           | 36           | 23           |
| Miscellaneous Dangerous Goods  | 35                     | 43           | 25           | 26           | 18           |
| Oxidizing Substances           | 4                      | 3            | 3            | 5            | 2            |
| Poison & Infectious Substances | 1                      | 3            | 2            | 2            | 4            |
| Radioactive Material           | 0                      | 0            | 0            | 0            | 0            |
| Unknown                        | 42                     | 49           | 64           | 68           | 66           |
| Cargo Release: Unknown         | 502                    | 484          | 570          | 466          | 340          |
| <b>Total</b>                   | <b>2,462</b>           | <b>2,578</b> | <b>2,892</b> | <b>2,748</b> | <b>2,183</b> |

\*Crash records through September 30, 2013, are included in this table. States are expected to report crash data to FMCSA within 90 days of the crash. Data are considered preliminary for 18 months to allow for changes.

Notes: Large trucks are defined here as vehicles designed, used, or maintained primarily for carrying property, with a gross vehicle weight rating (GVWR) or gross combination weight rating (GCWR) of more than 10,000 pounds or any vehicle carrying HM that requires placarding, regardless of weight.

Data Source: FMCSA, Motor Carrier Management Information System (MCMIS), data snapshot as of January 24, 2014, including crash records through September 30, 2013.

## 4-16 Driver's License Class Statistics for Large Trucks and Buses in Crashes, 2009-2013

| License Class | Number of Vehicles Involved |                |                |                |                |
|---------------|-----------------------------|----------------|----------------|----------------|----------------|
|               | 2009                        | 2010           | 2011           | 2012           | 2013*          |
| Class A       | 80,834                      | 88,775         | 89,756         | 89,607         | 67,649         |
| Class B       | 18,028                      | 18,745         | 18,895         | 19,375         | 14,278         |
| Class C       | 8,193                       | 8,155          | 8,403          | 8,480          | 6,561          |
| Class D       | 10,297                      | 11,266         | 11,436         | 12,442         | 9,176          |
| Class M       | 340                         | 437            | 358            | 501            | 834            |
| Unknown       | 7,446                       | 9,424          | 9,464          | 6,773          | 4,672          |
| <b>Total</b>  | <b>125,138</b>              | <b>136,802</b> | <b>138,312</b> | <b>137,178</b> | <b>103,170</b> |

\*Crash records through September 30, 2013, are included in this table. States are expected to report crash data to FMCSA within 90 days of the crash. Data are considered preliminary for 18 months to allow for changes.

Notes: A large truck is defined here as a vehicle, used for commercial purposes, with a gross vehicle weight rating (GVWR) or gross combination weight rating (GCWR) greater than 10,000 pounds, or any vehicle carrying hazardous materials (HM) that requires placarding, regardless of weight. A bus is defined as a vehicle with seats for at least nine people, including the driver. Descriptions for driver's license classes are as follows: Class A pertains to any combination of vehicles which has a GCWR or gross combination weight of 26,001 pounds or more, whichever is greater, inclusive of a towed unit(s) with a GVWR or gross vehicle weight of more than 10,000 pounds, whichever is greater. Class B pertains to any single vehicle which has a GVWR or gross vehicle weight of 26,001 pounds or more, or any such vehicle towing a vehicle with a GVWR or gross vehicle weight that does not exceed 10,000 pounds. Class C pertains to any single vehicle, or combination of vehicles, that does not meet the definition of Class A or Class B, but is either designed to transport 16 or more passengers, including the driver, or is transporting material that has been designated as hazardous and is required to be placarded or is transporting any quantity of a material listed as a select agent or toxin. Class D pertains to any vehicle, or any combination of vehicles, with a GVWR of 26,000 pounds or less that is not used 1) for the purpose of transporting HM which are required by law to be placarded, 2) to transport more than 15 passengers including the driver, and 3) is not a school bus used to transport children to and from school for compensation. Class M pertains to motorcycles and motor-driven cycles.

Data Source: FMCSA, Motor Carrier Management Information System (MCMIS), data snapshot as of January 24, 2014, including crash records through September 30, 2013.

## 4-17 Large Trucks in Crashes by Operation Classification, 2009-2013

| Classification                               | 2009           | 2010           | 2011           | 2012           | 2013*         |
|--|----------------|----------------|----------------|----------------|---------------|
| For-Hire                                     | 56,789         | 63,996         | 64,893         | 64,608         | 48,533        |
| Private                                      | 18,727         | 20,166         | 20,894         | 21,270         | 16,214        |
| Both For-Hire and Private                    | 8,281          | 9,012          | 9,143          | 9,604          | 7,319         |
| Neither For-Hire Nor Private/No USDOT Number | 27,737         | 29,428         | 29,261         | 27,180         | 20,574        |
| <b>Total</b>                                 | <b>111,534</b> | <b>122,602</b> | <b>124,191</b> | <b>122,662</b> | <b>92,640</b> |

\*Crash records through September 30, 2013, are included in this table. States are expected to report crash data to FMCSA within 90 days of the crash. Data are considered preliminary for 18 months to allow for changes.

Notes: A large truck is defined here as a vehicle, used for commercial purposes, with a gross vehicle weight rating (GVWR) or gross combination weight rating (GCWR) greater than 10,000 pounds, or any vehicle carrying hazardous materials (HM) that requires placarding, regardless of weight.

Data Source: Crash data for all years: FMCSA, Motor Carrier Management Information System (MCMIS), data snapshot as of January 24, 2014, including crash records through September 30, 2013. For-hire and private information: FMCSA, MCMIS, data snapshots as of June 22, 2012, December 14, 2012, and January 24, 2014.

## 4-18 Large Trucks in Crashes by Carrier Operation, 2009-2013

| Carrier Operation                   | 2009           | 2010           | 2011           | 2012           | 2013*         |
|-------------------------------------|----------------|----------------|----------------|----------------|---------------|
| Interstate                          | 69,846         | 79,541         | 82,161         | 83,369         | 62,104        |
| Intrastate Hazardous Materials (HM) | 979            | 1,074          | 1,177          | 1,133          | 846           |
| Intrastate Non-HM**                 | 6,988          | 8,157          | 9,538          | 9,978          | 7,579         |
| Unknown Carrier Operation**         | 33,721         | 33,830         | 31,315         | 28,182         | 22,111        |
| <b>Total</b>                        | <b>111,534</b> | <b>122,602</b> | <b>124,191</b> | <b>122,662</b> | <b>92,640</b> |

\*Crash records through September 30, 2013, are included in this table. States are expected to report crash data to FMCSA within 90 days of the crash. Data are considered preliminary for 18 months to allow for changes.

\*\*Some States do not require intrastate non-HM carriers to obtain USDOT numbers.

Notes: A large truck is defined here as a vehicle, used for commercial purposes, with a gross vehicle weight rating (GVWR) or gross combination weight rating (GCWR) greater than 10,000 pounds, or any vehicle carrying HM that requires placarding, regardless of weight.

Data Source: Crash data for all years: FMCSA, Motor Carrier Management Information System (MCMIS), data snapshot as of January 24, 2014, including crash records through September 30, 2013. For-hire and private information: FMCSA, MCMIS, data snapshots as of June 22, 2012, December 14, 2012, and January 24, 2014.

## 4-19 Bus Fatal Crash Statistics, 2009-2012

| Year | Fatal Crashes Involving Buses | Bus Occupant Fatalities in Bus Crashes | Total Fatalities in Bus Crashes | Million VMT by Buses | Rates per 100 Million VMT     |                           | Buses Registered |
|------|-------------------------------|--|---------------------------------|----------------------|-------------------------------|---------------------------|------------------|
|      |                               |  |                                 |                      | Fatal Crashes Involving Buses | Fatalities in Bus Crashes |                  |
| 1975 | 323                           | 53                                     | 348                             | 6,055                | 5.33                          | 5.75                      | 462,156          |
| 1980 | 329                           | 46                                     | 390                             | 6,059                | 5.43                          | 6.44                      | 528,789          |
| 1985 | 337                           | 57                                     | 398                             | 4,478                | 7.53                          | 8.89                      | 593,485          |
| 1990 | 286                           | 32                                     | 340                             | 5,726                | 4.99                          | 5.94                      | 626,987          |
| 1995 | 271                           | 33                                     | 311                             | 6,420                | 4.22                          | 4.84                      | 685,503          |
| 2000 | 323                           | 22                                     | 357                             | 7,590                | 4.26                          | 4.70                      | 746,125          |
| 2005 | 278                           | 58                                     | 340                             | 6,980                | 3.98                          | 4.87                      | 807,053          |
| 2006 | 303                           | 27                                     | 337                             | 6,783                | 4.47                          | 4.97                      | 821,959          |
| 2007 | 280                           | 36                                     | 325                             | 14,516               | 1.93                          | 2.24                      | 834,436          |
| 2008 | 251                           | 67                                     | 311                             | 14,823               | 1.69                          | 2.10                      | 843,308          |
| 2009 | 221                           | 26                                     | 254                             | 14,387               | 1.54                          | 1.77                      | 841,993          |
| 2010 | 247                           | 44                                     | 278                             | 13,770               | 1.79                          | 2.02                      | 846,051          |
| 2011 | 243                           | 55                                     | 284                             | 13,807               | 1.76                          | 2.06                      | 666,064          |
| 2012 | 250                           | 39                                     | 280                             | 14,755               | 1.69                          | 1.90                      | 764,509          |

Notes: A bus is defined as any motor vehicle designed primarily to transport nine or more persons, including the driver.

Data Sources: Vehicle Miles Traveled and Registered Vehicles - FHWA, *Highway Statistics 2012*; Fatal Crashes, Vehicles Involved, and Fatalities - National Highway Traffic Safety Administration (NHTSA), Fatality Analysis Reporting System (FARS).

## 4-20 Bus Injury Crash Statistics, 2009-2012

| Year | Injury Crashes Involving Buses | Buses Involved in Injury Crashes | Persons Injured in Bus Crashes | Million VMT by Buses | Rates per 100 Million VMT      |                                | Buses Registered |
|------|--------------------------------|----------------------------------|--------------------------------|----------------------|--------------------------------|--------------------------------|------------------|
|      |                                |                                  |                                |                      | Injury Crashes Involving Buses | Persons Injured in Bus Crashes |                  |
| 2009 | 9,000                          | 10,000                           | 20,000                         | 14,387               | 64.9                           | 140.2                          | 841,993          |
| 2010 | 12,000                         | 12,000                           | 27,000                         | 13,770               | 83.6                           | 196.7                          | 846,051          |
| 2011 | 13,000                         | 13,000                           | 24,000                         | 13,807               | 96.8                           | 176.7                          | 666,064          |
| 2012 | 12,000                         | 12,000                           | 23,000                         | 14,755               | 80.7                           | 156.5                          | 764,509          |

Notes: "Persons Injured" includes all nonfatally injured persons in injury and fatal crashes. A bus is defined here as any motor vehicle designed primarily to transport nine or more persons, including the driver.

Data Sources: Vehicle Miles Traveled and Registered Vehicles: FHWA, *Highway Statistics 2012*. Injury Crashes, Vehicles Involved, and Persons Injured: National Highway Traffic Safety Administration (NHTSA), General Estimates System (GES).

## 4-21 Fatal Crashes Involving Buses, by Type of Bus, 2009-2012

| Year | School Bus | Cross-Country Intercity |     | Transit Bus | Van-Based Bus* | Other Bus Type | Bus Type Unknown | Total |
|------|------------|-------------------------|-----|-------------|----------------|----------------|------------------|-------|
|      |            | Bus (Motorcoach)        |     |             |                |                |                  |       |
| 1975 | 129        | 29                      | 128 | —           | 18             | 19             | 323              |       |
| 1980 | 117        | 38                      | 149 | —           | 14             | 11             | 329              |       |
| 1985 | 126        | 29                      | 116 | —           | 33             | 33             | 337              |       |
| 1990 | 111        | 26                      | 113 | —           | 19             | 17             | 286              |       |
| 1995 | 109        | 23                      | 101 | —           | 23             | 15             | 271              |       |
| 2000 | 119        | 40                      | 127 | —           | 20             | 17             | 323              |       |
| 2005 | 110        | 37                      | 83  | —           | 34             | 14             | 278              |       |
| 2006 | 117        | 32                      | 105 | —           | 22             | 27             | 303              |       |
| 2007 | 109        | 35                      | 113 | —           | 15             | 8              | 280              |       |
| 2008 | 116        | 20                      | 92  | —           | 12             | 11             | 251              |       |
| 2009 | 89         | 38                      | 77  | —           | 9              | 8              | 221              |       |
| 2010 | 113        | 35                      | 84  | —           | 11             | 4              | 247              |       |
| 2011 | 97         | 40                      | 68  | 25          | 10             | 3              | 243              |       |
| 2012 | 100        | 34                      | 77  | 30          | 7              | 2              | 250              |       |

\* "Van-based bus" was listed as a bus type for the first time in 2011.

Note: A bus is defined as any motor vehicle designed primarily to transport nine or more persons, including the driver.

Data Source: National Highway Traffic Safety Administration (NHTSA), Fatality Analysis Reporting System (FARS).

## 4-22 Estimated Costs of Large Truck and Bus Crashes, 2009-2012 (2012 Dollars)

| Year | Fatal Crashes | Injury Crashes | Property-Damage-Only (PDO) Crashes | All Large Truck and Bus Crashes |
|------|---------------|----------------|------------------------------------|---------------------------------|
| 2009 | \$35 Billion  | \$27 Billion   | \$20 Billion                       | \$82 Billion                    |
| 2010 | \$38 Billion  | \$30 Billion   | \$18 Billion                       | \$86 Billion                    |
| 2011 | \$39 Billion  | \$33 Billion   | \$18 Billion                       | \$90 Billion                    |
| 2012 | \$40 Billion  | \$38 Billion   | \$21 Billion                       | \$99 Billion                    |

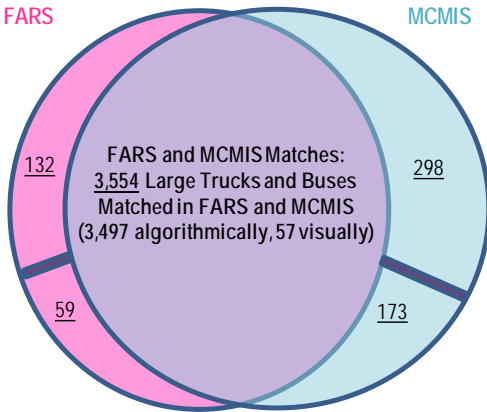
Notes: A large truck is defined here as a truck with a gross vehicle weight rating (GVWR) greater than 10,000 pounds. A bus is defined as any motor vehicle designed primarily to transport nine or more persons, including the driver. The total costs may not add up exactly due to rounding. Changes to past years are the result of updating for inflation and changes in guidance from the Office of the Secretary of Transportation on how to value fatalities and injuries.

Data Source: T. Miller, E. Zaloshnja, and R. Spicer, *Revised Cost of Large Truck and Bus Involved Crashes* (2002), adjusted to 2012 dollars and 2013 value of a statistical life (VSL), and updated to reflect new guidance on valuing injuries from the Office of the Secretary of Transportation.



## 4-23 Fatality Analysis Reporting System (FARS) and Motor Carrier Management Information System (MCMIS) Matching for Large Trucks and Buses in Fatal Crashes, 2010

| Number | Category  | Percentage |
|--------|---|------------|
| 3,554  | Large trucks and buses matched in FARS and MCMIS  | 84.3%      |
| 132    | Large trucks and buses in FARS and not in MCMIS<br>(including vehicles less than 10,000 pounds) | 3.1%       |
| 59     | Large trucks and buses in FARS matched to a non-fatal crash in MCMIS                            | 1.4%       |
| 298    | Large trucks and buses in MCMIS and not in FARS   | 7.1%       |
| 173    | Large trucks and buses in MCMIS matched to vehicles in FARS that were not large trucks or buses | 4.1%       |
| 4,216  | Total large trucks and buses in fatal crashes in FARS, MCMIS, or both                           | 100.0%     |



Notes: A large truck is defined in FARS as a truck with a gross vehicle weight rating (GVWR) greater than 10,000 pounds. A large truck is defined in MCMIS as a vehicle, used for commercial purposes, with a gross vehicle weight rating (GVWR) or gross combination weight rating (GCWR) greater than 10,000 pounds, or any vehicle carrying hazardous materials (HM) that requires placarding, regardless of weight. A bus is defined as any motor vehicle designed primarily to transport nine or more persons, including the driver.

Data Sources: National Highway Traffic Safety Administration (NHTSA), FARS; FMCSA, MCMIS; the Volpe National Transportation Systems Center.

## 5. DATA QUALITY

### State Safety Data Quality (SSDQ) Methodology

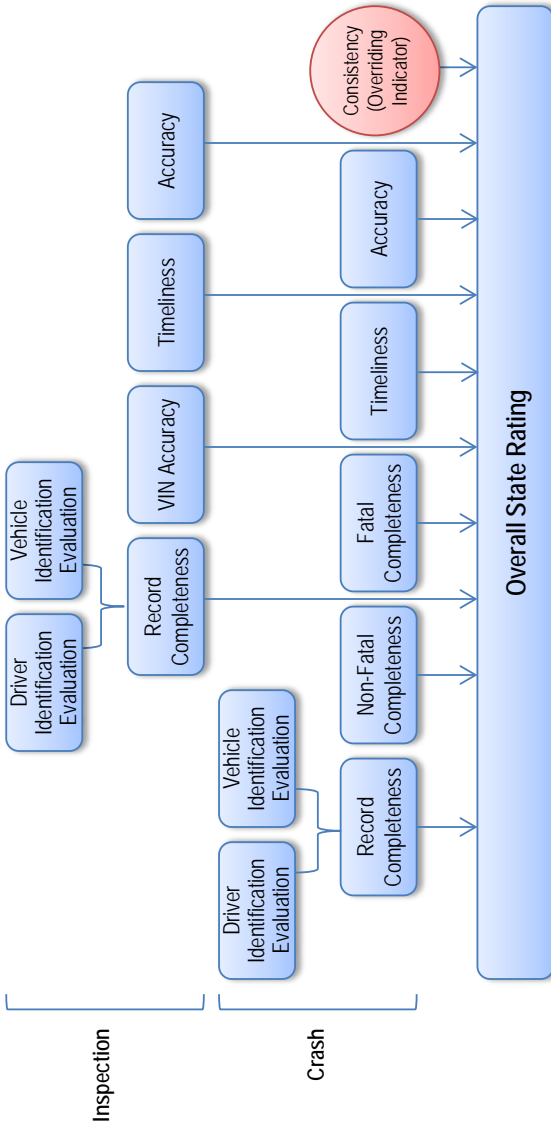
To conduct accurate analyses on collected statistics, it is crucial that data submitted to FMCSA be of the highest quality possible. To help achieve this goal, FMCSA has implemented the State Safety Data Quality (SSDQ) Methodology.

The SSDQ Methodology was developed to evaluate the completeness, timeliness, accuracy, and consistency of State-reported data. The SSDQ evaluation uses a 12-month timeframe that ends 3 months prior to the Motor Carrier Management Information System (MCMIS) snapshot for each measure, unless otherwise stated in the rating description. The methodology consists of nine performance measures (five crash and four inspection measures) and one overriding performance indicator (see 5-1).

The SSDQ evaluation is updated monthly to reflect improvements in crash and roadside inspection reporting. States receive an overall rating of "Good," "Fair," or "Poor" for each SSDQ measure and rating. FMCSA developed the color-coded SSDQ map (see 5-2) as a visual tool for States to use in improving crash and inspection data reported to FMCSA. The overall data quality rating for each State is based on the following criteria:

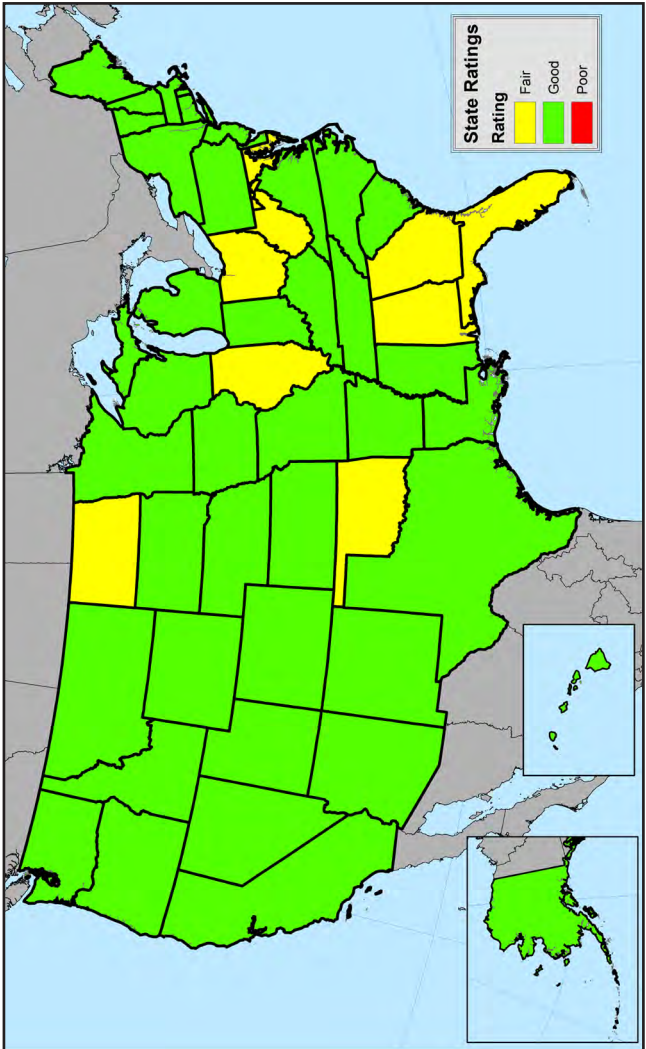
- Good (green) for States with at least one good crash measure, one good inspection measure, and no poor measures.
- Fair (yellow) for States with no more than one poor measure.
- Poor (red) for States with two or more poor measures.
- Red-flagged States are automatically rated poor overall.

## 5-1 State Safety Data Quality (SSDQ) Performance Measures



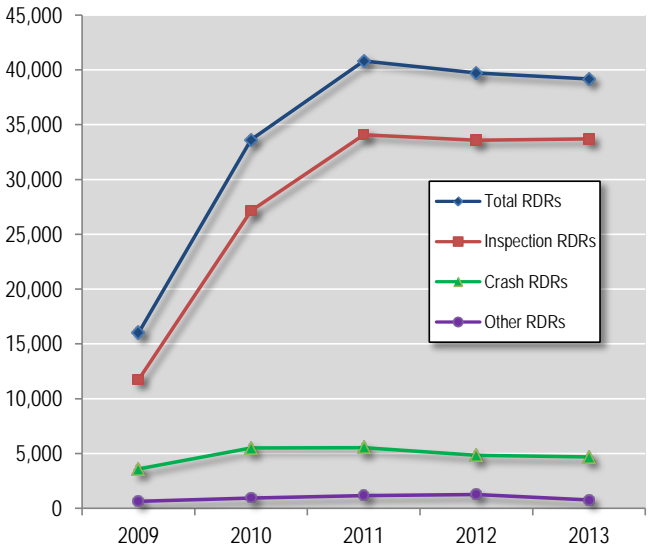
Data Source: FMCSA, Analysis & Information (A&I) Online, <http://ai.fmcsa.dot.gov/DataQuality>.

## 5-2 State Safety Data Quality (SSDQ) Map, December 2013



Data Source: FMCSA, Analysis & Information (A&I) Online, State Safety Data Quality as of December, 2013. For most recent State ratings, refer to: <http://ai.fmcsa.dot.gov/mapping/ssdq>.

### 5-3 Annual Requests for Data Review (RDRs) in DataQs, 2009-2013



Data Source: FMCSA, DataQs, February 6, 2014 (based on submissions received in calendar year [CY] 2013).

DataQs is the online system for drivers, motor carriers, Federal and State agencies, and others to file concerns about Federal and State data maintained in the Motor Carrier Management Information System (MCMIS) and released to the public by FMCSA. The DataQs system provides affected commercial motor carriers, commercial drivers, and others an opportunity to seek and obtain correction of information maintained and disseminated by FMCSA.

For more information on DataQs, please refer to: <https://dataqs.fmcsa.dot.gov>

## 6. GRANT PROGRAMS

FMCSA safety grant funding opportunities are available primarily to State and local government agencies in one of the 50 States, the District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, and the U.S. Virgin Islands. Applicants for FMCSA funding opportunities should be working on commercial motor vehicle (CMV) safety activities with efforts directly linked to FMCSA's mission. An overview of 2013 FMCSA grant awards and short program descriptions are presented below. More information on these grant programs can be found at <http://www.fmcsa.dot.gov/mission/grants>.

### 6-1 FMCSA Grant Awards, 2013

| Grant Program              | Total Awards         |
|----------------------------|----------------------|
| Border Enforcement         | \$31,936,000         |
| CDL Program Implementation | \$23,956,430         |
| CMVOST                     | \$973,461            |
| CVISN                      | \$15,785,861         |
| MCSAP Basic & Incentive    | \$164,981,875        |
| MCSAP High Priority        | \$9,320,338          |
| MCSAP New Entrant          | \$31,329,076         |
| PRISM                      | \$4,848,239          |
| SaDIP                      | \$2,994,000          |
| <b>Total Grant Awards</b>  | <b>\$282,157,819</b> |

#### Border Enforcement Grant (BEG)

The BEG program is a Federal discretionary grant program that provides financial assistance to States and entities that share a land border with another country for carrying out border CMV safety programs and related enforcement activities and projects. The Federal share of the BEG may be 100 percent of the expenditures approved in the State or entity's Border Enforcement Plan provided the maintenance of expenditures amount is met.

#### Commercial Motor Vehicle Operator Safety Training (CMVOST) Grant

The CMVOST Grant Program is a discretionary program that provides financial assistance to public or private organizations that train operators of CMVs as defined by 31301 of Title 49 (i.e., accredited post-secondary educational institutions such as colleges, universities, vocational-technical

schools, associations, and truck driver training schools). The goals of the CMVOST grant program are to expand the number of CDL holders possessing enhanced operator safety training to help reduce the severity and number of crashes on U.S. roads involving CMVs and to assist current or former members of the U.S. Armed Forces (including National Guard members and Reservists) and their spouses in the transition to the CMV operation industry by offering training.

### **Commercial Driver's License Program Implementation (CDLPI) Grant**

The CDLPI grant provides financial assistance to States to achieve compliance with the requirements of 49 CFR Parts 383 and 384. The goal of the national Commercial Driver's License (CDL) program is to reduce the number and severity of CMV crashes in the United States by ensuring that only qualified drivers are eligible to receive and retain a CDL. The Federal share of CDLPI grants is 100 percent of the expenditures approved in the State or entity's application.

### **Commercial Vehicle Information Systems and Networks (CVISN) Grant**

The Commercial Vehicle Information Systems and Networks (CVISN) grant program provides discretionary funding for States and the District of Columbia to deploy, operate, and maintain elements of their CVISN programs, including commercial vehicle, commercial driver, and carrier-specific information systems and networks. The agency in each State and the District of Columbia that is primarily responsible for the development, implementation, and maintenance of CVISN-related systems is eligible to apply for grant funding. To view the most recently published CVISN annual report, visit [http://ntl.bts.gov/lib/51000/51800/51834/13-010-CVISN Annual Report 2012- Full Report.pdf](http://ntl.bts.gov/lib/51000/51800/51834/13-010-CVISN%20Annual%20Report%202012-Full%20Report.pdf).

### **Motor Carrier Safety Assistance Program (MCSAP) Basic and Incentive Grants**

Under the MCSAP Basic and Incentive grant programs, a State lead MCSAP agency is eligible to apply for Basic and Incentive grant funding by submitting a commercial vehicle safety plan. FMCSA will reimburse each State's lead MCSAP agency 80 percent of eligible costs incurred in a fiscal year. Each lead agency will provide a 20 percent match of funds to qualify for the program. No match is required for the U.S. territories, with the exception of Puerto Rico. Basic grant funds are distributed proportionally based on four equally rated factors. A State lead MCSAP agency may qualify for Incentive grant funds if it can demonstrate CMV safety program improvement in five specific categories. Prior to the start of each fiscal year, FMCSA calculates the amount of Basic and Incentive funding each State is expected to receive.

## **MCSAP High Priority Grant**

MCSAP High Priority grant funding is available for projects that are national in scope, increase public awareness and education, demonstrate new technologies, and reduce the number and rate of CMV accidents. Eligible recipients are State agencies, local governments, and organizations representing government agencies that use and train qualified officers and employees in coordination with State motor vehicle safety agencies. FMCSA may reserve High Priority funding exclusively for innovative traffic enforcement projects, with particular emphasis on work zone enforcement and rural road safety.

## **New Entrant Safety Audit Grant**

The goal of the New Entrant Safety Audit grant program is to reduce CMV-involved crashes, fatalities, and injuries through consistent, uniform, and effective CMV safety programs. New Entrant discretionary grant funds will be awarded to States and local government for New Entrant safety audits on interstate motor carriers. States may use these funds for salaries and related expenses of New Entrant auditors, including training and equipment, and to perform other eligible activities that are directly related to conducting safety audits. The Federal share for the New Entrant grants is established at 100 percent of authorized funds.

## **Performance and Registration Information Systems Management (PRISM) Grant**

The PRISM grant program is a cooperative Federal-State safety program developed to reduce commercial vehicle accidents. The performance of unsafe carriers is improved through a comprehensive system of identifications, education, data gathering, safety monitoring, and treatment. The PRISM program incorporates Registration and Enforcement processes to identify motor carriers and hold them responsible for the safety of their operations. To be eligible, State agencies located in one of the 50 States or in one of the U.S. territories must work on highway traffic safety activities and demonstrate a capacity to work with highway traffic safety stakeholders.

## **Safety Data Improvement Program (SaDIP) Grant**

The goal of SaDIP grant funding is to provide financial and technical assistance to States to facilitate the collection of accurate, complete, and timely data on all large commercial truck and bus crashes that involve a fatality, injury, or a vehicle towed from the crash scene. Reports from the Government Accountability Office and the USDOT Inspector General have recommended that improvements be made in FMCSA crash and enforcement data. Congress has responded by providing funding annually for FMCSA to work with the States to improve reporting of large commercial truck and bus crashes.



## 7. AGENCY RESOURCES

FMCSA Web site

<http://www.fmcsa.dot.gov>

Analysis & Information (A&I) Online

<http://ai.fmcsa.dot.gov>

Compliance, Safety, Accountability (CSA)

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

DataQs

<http://dataqs.fmcsa.dot.gov>

FMCSA Portal

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

Motor Carrier Management Information System (MCMIS)

<http://mcmiscatalog.fmcsa.dot.gov>

Fatality Analysis Reporting System (FARS)

<http://www.nhtsa.gov/FARS>

Federal Highway Administration (FHWA) Highway Statistics Series

<https://www.fhwa.dot.gov/policyinformation/statistics>

General Estimates System (GES)

<http://www.nhtsa.gov/NASS>

Licensing & Insurance (L&I)

<http://li-public.fmcsa.dot.gov>

State Safety Data Improvement Program (SaDIP)

<http://www.fmcsa.dot.gov/grants/safety-data-improvement-grant/safety-data-improvement-program-grant-sadip>

Commercial Vehicle Information Systems and Networks (CVISN)

<http://www.fmcsa.dot.gov/grants/cvisn-grant/commercial-vehicle-information-systems-and-networks-cvisn-grant>

## GLOSSARY AND LIST OF ACRONYMS

|              |  |
|--------------|--|
| A&I          | Analysis & Information   |
| ABA          | American Bus Association   |
| BEG          | Border Enforcement Grant   |
| CDL          | Commercial Driver's License  |
| CDLPI        | Commercial Driver's License Program Improvement  |
| CMV          | Commercial Motor Vehicle (includes both large trucks and buses)  |
| CMVOST       | Commercial Motor Vehicle Operator Safety Training  |
| CR           | Compliance Review  |
| CSA          | Compliance, Safety, Accountability (CSA) is a major FMCSA safety measurement and reporting initiative. Designed to replace the SafeStat program, CSA was previously known as "Comprehensive Safety Analysis," or more commonly "CSA 2010."   |
| CVISN        | Commercial Vehicle Information Systems and Networks  |
| CY           | Calendar Year  |
| DataQs       | DataQs is an FMCSA system that allows users to request and track reviews of Federal and State data issued by FMCSA. The system automatically forwards a user's Request for Data Review to the appropriate office for resolution and collects updates and responses for current requests. |
| Domicile     | Refers to the headquarters location of a carrier.  |
| FAF          | Freight Analysis Framework   |
| FARS         | Fatality Analysis Reporting System   |
| FHWA         | Federal Highway Administration   |
| FMCSA        | Federal Motor Carrier Safety Administration  |
| FMCSRs       | Federal Motor Carrier Safety Regulations   |
| Form MCS-150 | Motor Carrier Identification Report (Application for USDOT Number)   |
| GES          | General Estimates System   |
| GCWR         | Gross Combination Weight Rating  |

|                |   |
|----------------|---|
| GVWR           | Gross Vehicle Weight Rating   |
| HM             | Hazardous Materials   |
| HMRs           | Hazardous Materials Regulations   |
| HOS            | Hours of Service  |
| L&I            | Licensing & Insurance   |
| MCMIS          | The Motor Carrier Management Information System (MCMIS) is an FMCSA system that contains crash, census, and inspection files created to monitor and develop safety standards for commercial motor vehicles operating in interstate commerce.                                    |
| MCSAP          | Motor Carrier Safety Assistance Program   |
| MMUCC          | Model Minimum Uniform Crash Criteria  |
| NHTSA          | National Highway Traffic Safety Administration  |
| OOS            | Out of Service  |
| OP-2 Authority | Carriers with OP-2 authority are Mexico-domiciled for-hire motor carriers and private motor carriers who transport property only in municipalities in the United States on the United States-Mexico international border or within the commercial zones of such municipalities. |
| PDO            | Property Damage Only  |
| PRISM          | Performance and Registration Information Systems Management   |
| RDR            | Request for Data Review   |
| SaDIP          | State Safety Data Improvement Program   |
| SBUCMVD        | Seat Belt Usage by Commercial Motor Vehicle Drivers   |
| SCR            | Security Contact Review   |
| SSDQ           | State Safety Data Quality   |
| UCR            | Unified Carrier Registration  |
| USDOT          | United States Department of Transportation  |
| VMT            | Vehicle Miles Traveled  |
| VSL            | Value of a Statistical Life   |





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