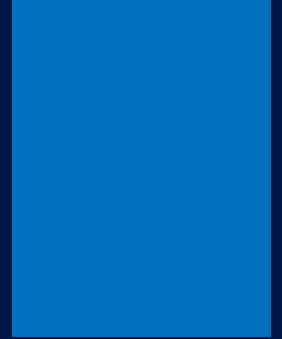


Trends in Commercial Motor Vehicle Safety

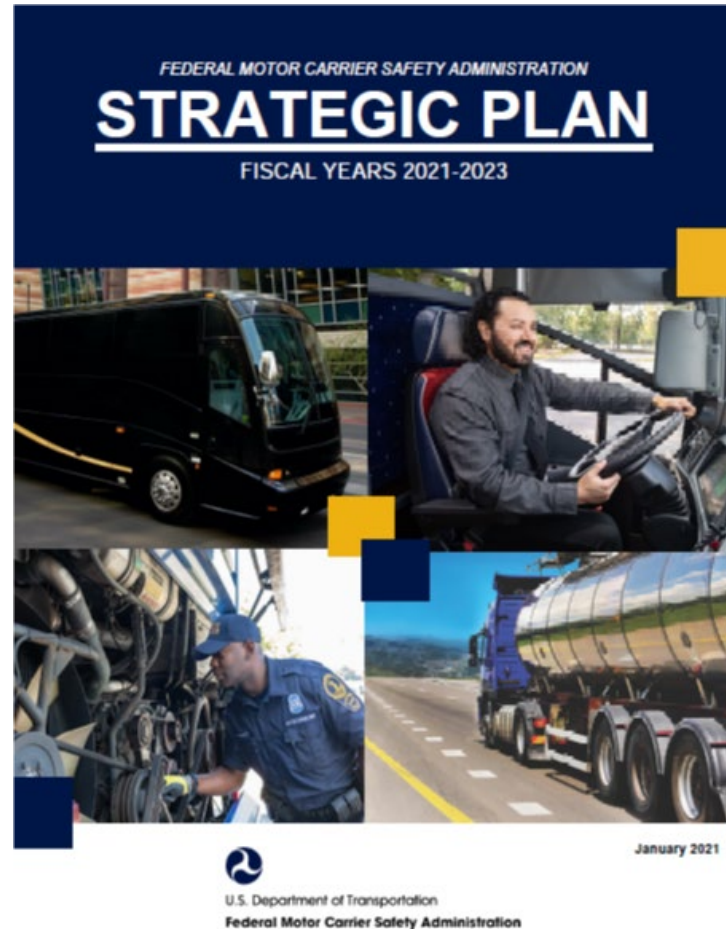
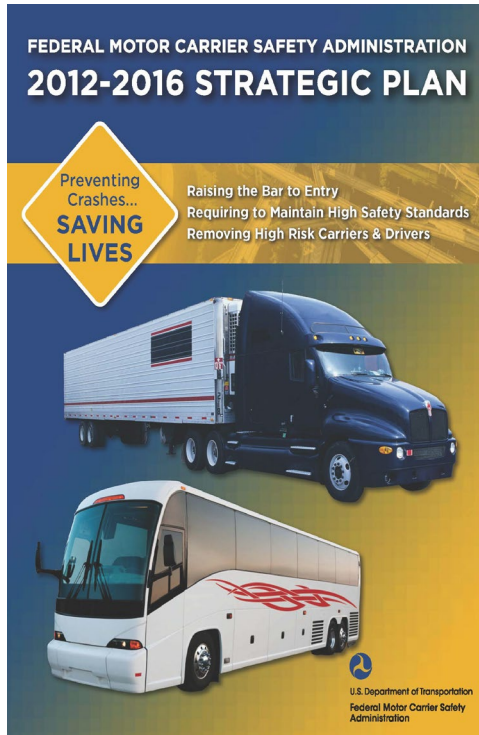
March 10, 2021



U.S. Department of Transportation
Federal Motor Carrier Safety Administration

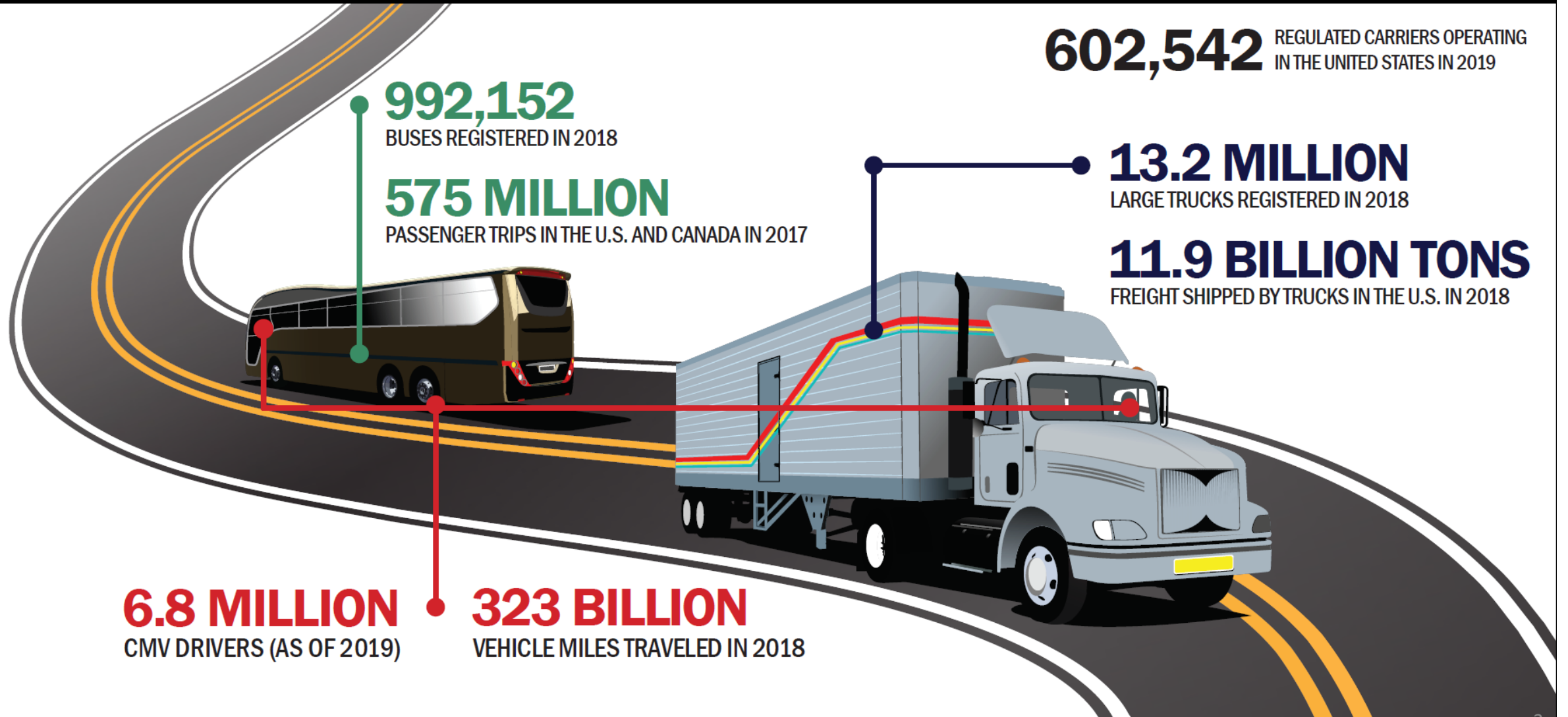


Our Mission

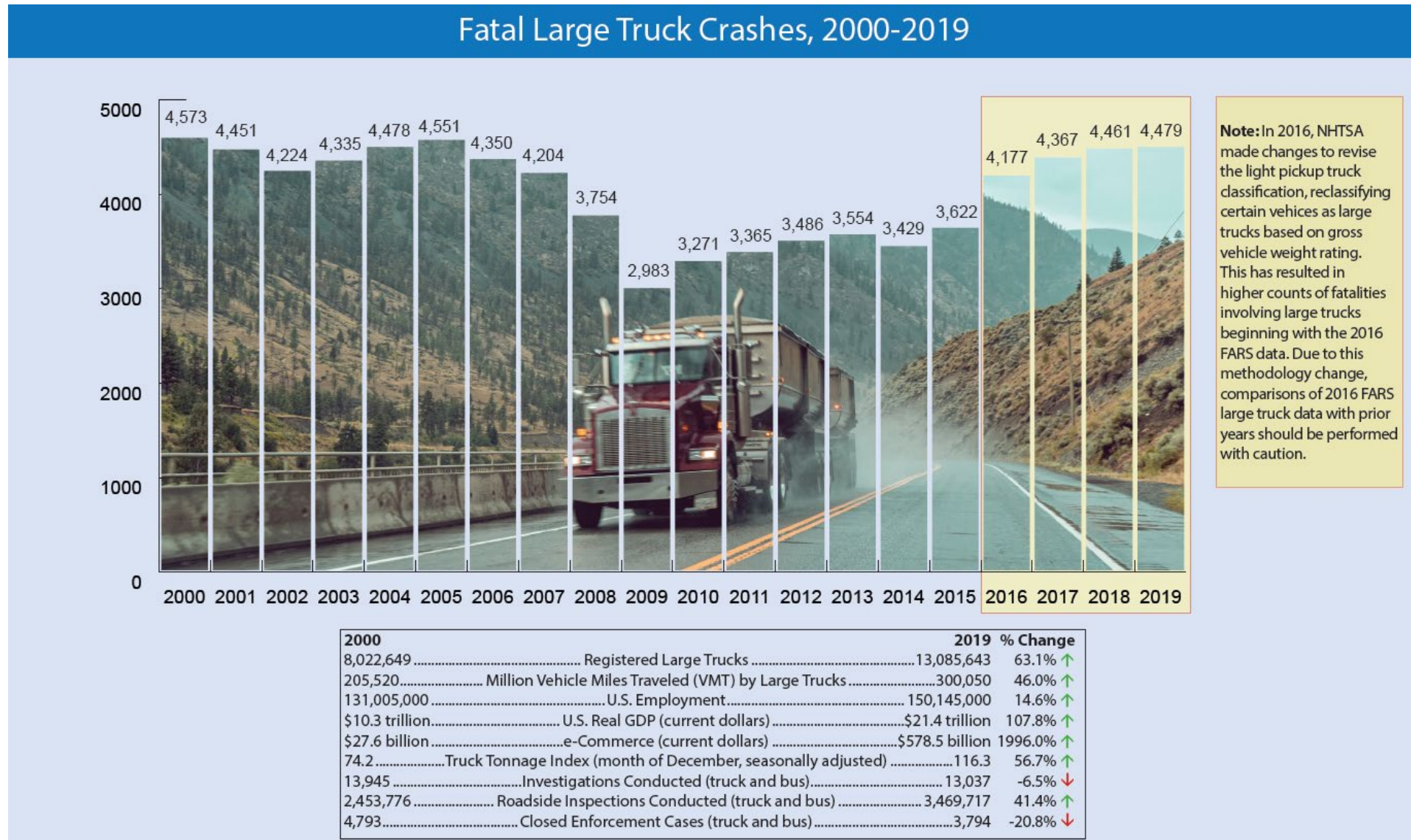


Our highest priority:
Reducing crashes, injuries, and fatalities involving CMV transportation through education, innovation, regulation, enforcement, financial assistance, partnerships, and full accountability.

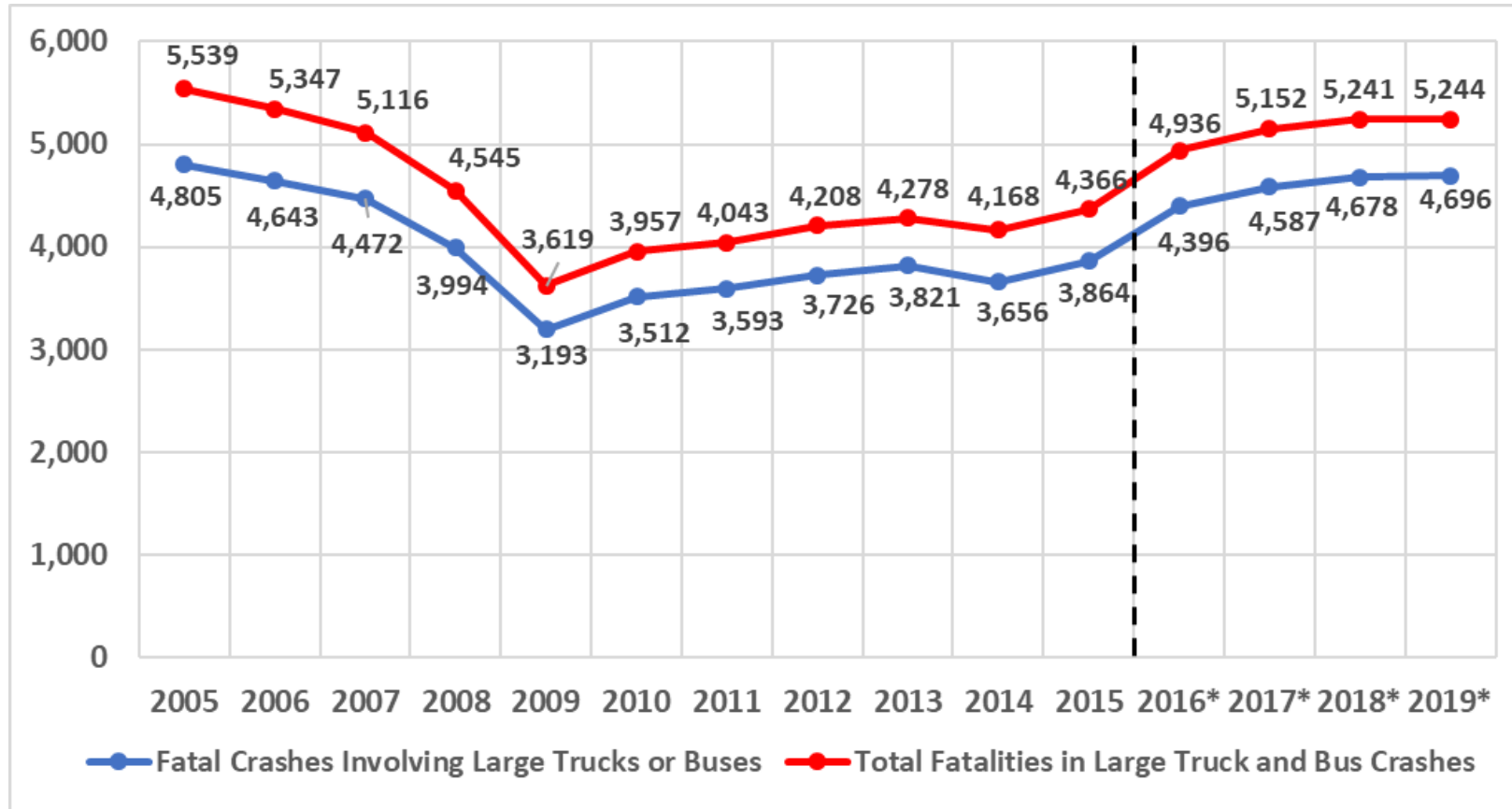
Snapshot of the CMV Industry



Large Truck Fatal Crashes, 2000–2019



Large Truck and Bus Fatal Crashes, 2005–2019



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

**In 2016, NHTSA made changes to revise the light pickup truck classification and reclassified 329 vehicles as large trucks (based on GVWR). Due to this methodology change, comparisons of 2016 FARS large truck data with prior years should be performed with caution.*

Large Trucks in Fatal Crashes by Truck Weight Rating, 2015–2019

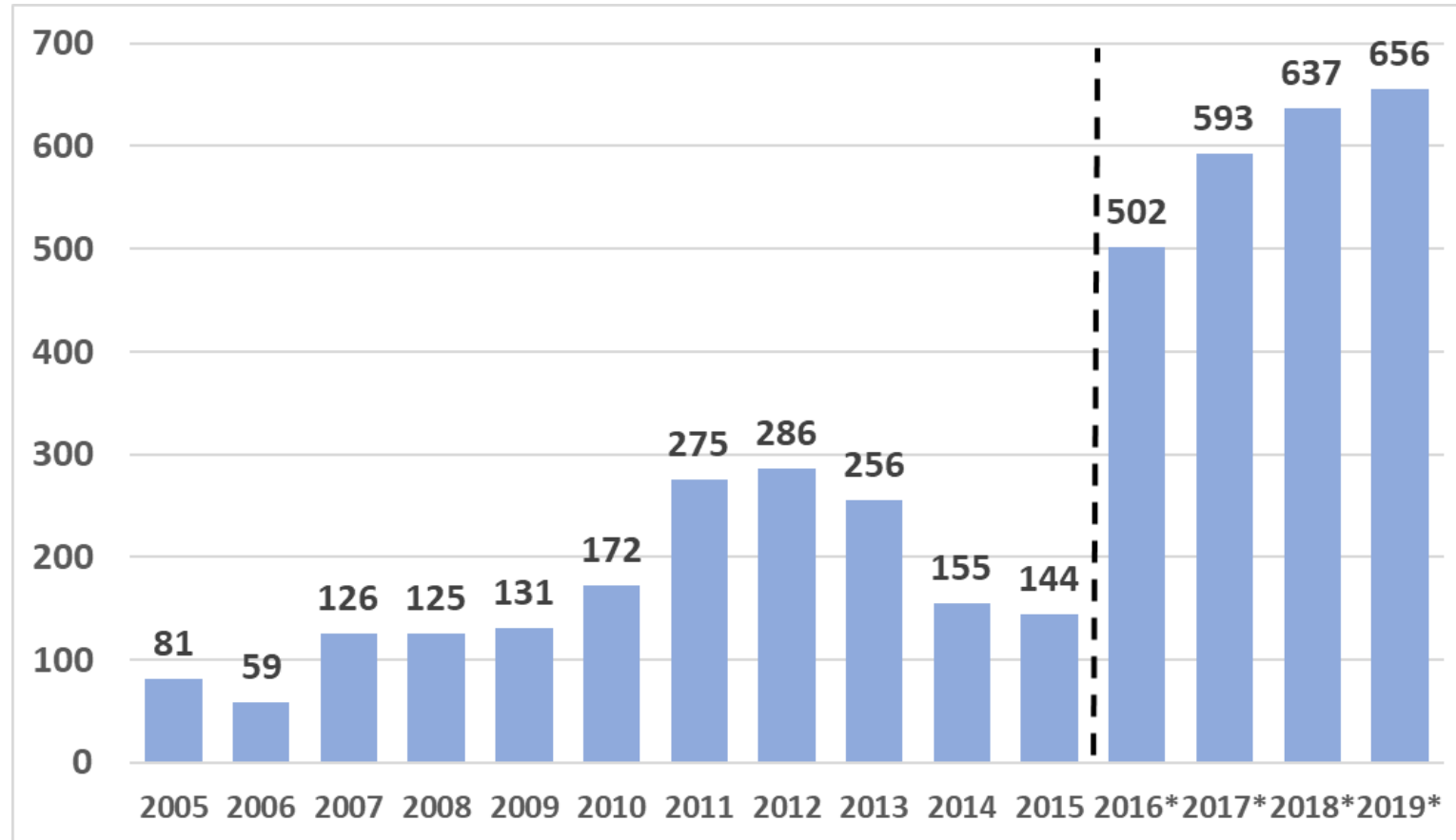
	2015		2016*		2017*		2018*		2019*	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Class 1: < 6,000 lb	1	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Class 2: 6,001 - 10,000 lb	5	0.1%	4	0.1%	1	0.0%	1	0.0%	1	0.0%
Class 3: 10,001 - 14,000 lb	144	3.5%	502	11.0%	593	12.3%	637	13.0%	656	13.1%
Class 4: 14,001 - 16,000 lb	70	1.7%	122	2.7%	102	2.1%	115	2.3%	131	2.6%
Class 5: 16,001 - 19,500 lb	85	2.1%	125	2.7%	151	3.1%	174	3.5%	163	3.3%
Class 6: 19,501 - 26,000 lb	221	5.4%	264	5.8%	246	5.1%	287	5.8%	275	5.5%
Class 7: 26,001 - 33,000 lb	257	6.3%	234	5.1%	271	5.6%	229	4.7%	238	4.8%
Class 8: 33,001 lb and Up	3,191	78.3%	3,210	70.4%	3,319	69.1%	3,327	67.8%	3,424	68.4%
Unknown	100	2.5%	101	2.2%	122	2.5%	139	2.8%	117	2.3%
Total	4,074	100.0%	4,562	100.0%	4,805	100.0%	4,909	100.0%	5,005	100.0%

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

**In 2016, NHTSA made changes to revise the light pickup truck classification and reclassified 329 vehicles as large trucks (based on GVWR). Due to this methodology change, comparisons of 2016 FARS large truck data with prior years should be performed with caution.*

- From 2015 to 2019:
 - The number of large trucks in a fatal crash with a weight rating between 10,001 and 14,000 lbs increased *356 percent* (144 to 656).
 - The number of large trucks in a fatal crash with a weight rating greater than 26,000 lbs increased *7.3 percent* (3,191 to 3,424).

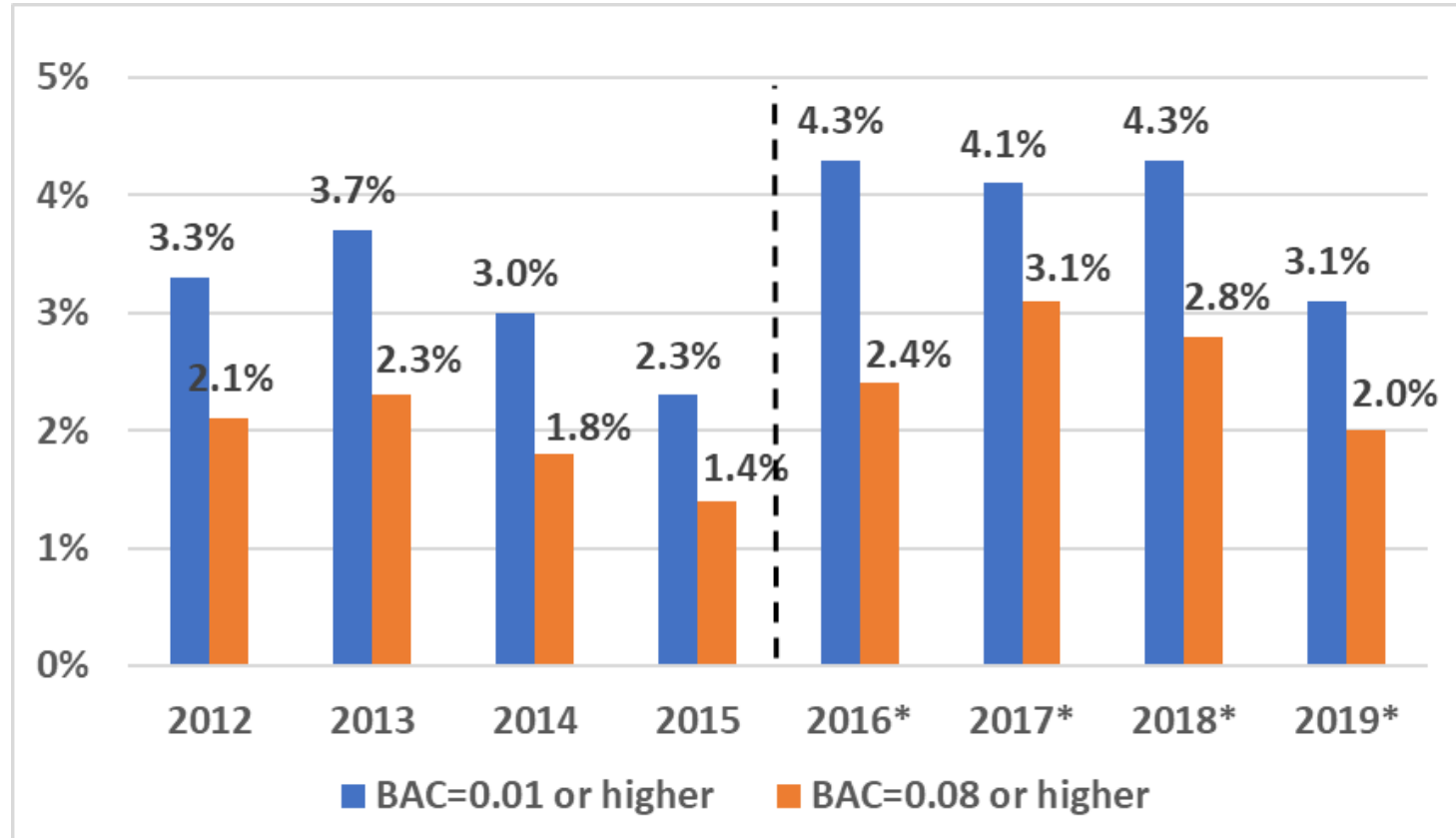
10,001–14,000 lb. Large Trucks in Fatal Crashes, 2005–2019



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

**In 2016, NHTSA made changes to revise the light pickup truck classification and reclassified 329 vehicles as large trucks (based on GVWR). Due to this methodology change, comparisons of 2016 FARS large truck data with prior years should be performed with caution.*

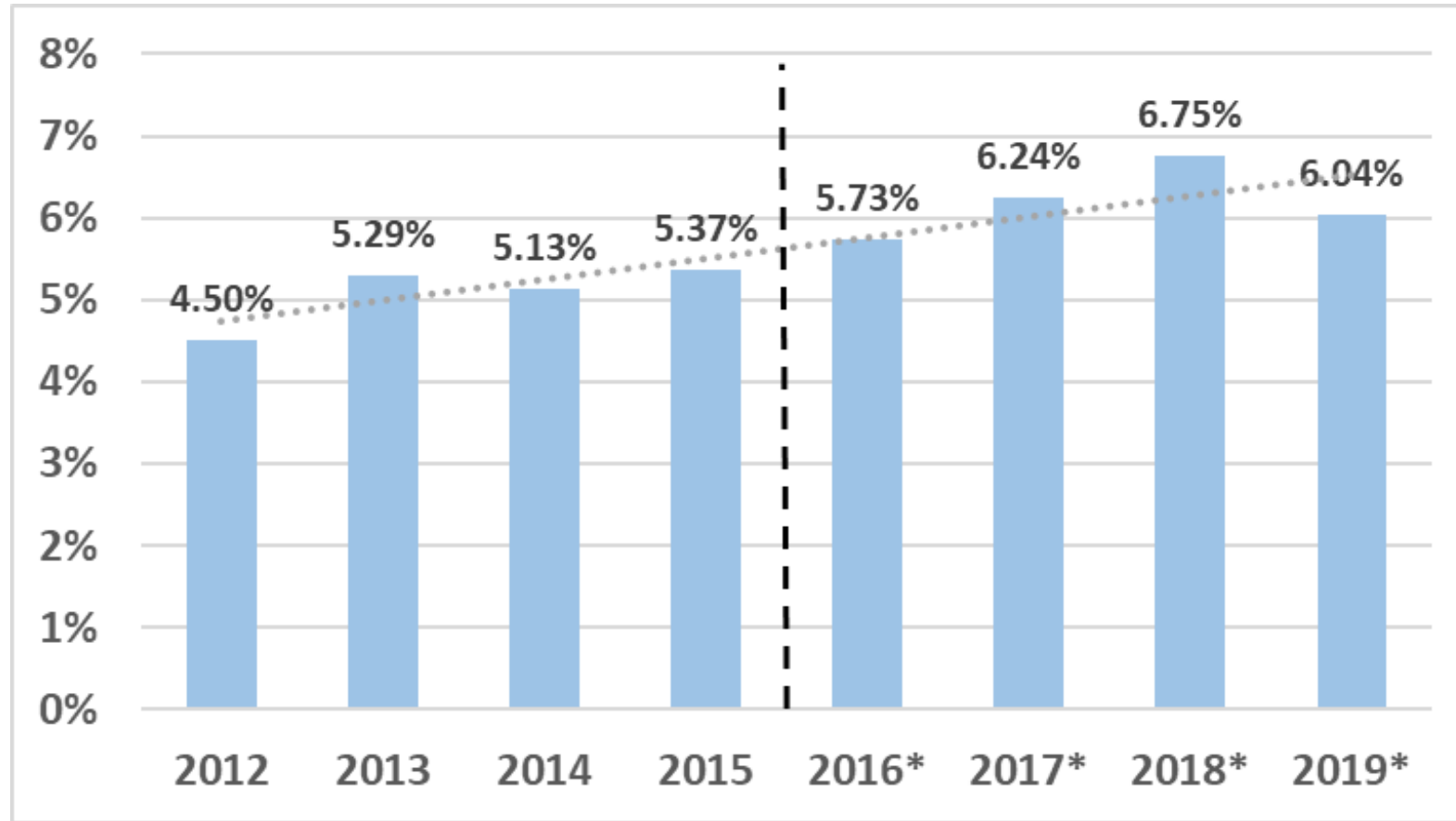
Large Truck Drivers in Fatal Crashes by BAC, 2012–2019



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

**In 2016, NHTSA made changes to revise the light pickup truck classification and reclassified 329 vehicles as large trucks (based on GVWR). Due to this methodology change, comparisons of 2016 FARS large truck data with prior years should be performed with caution.*

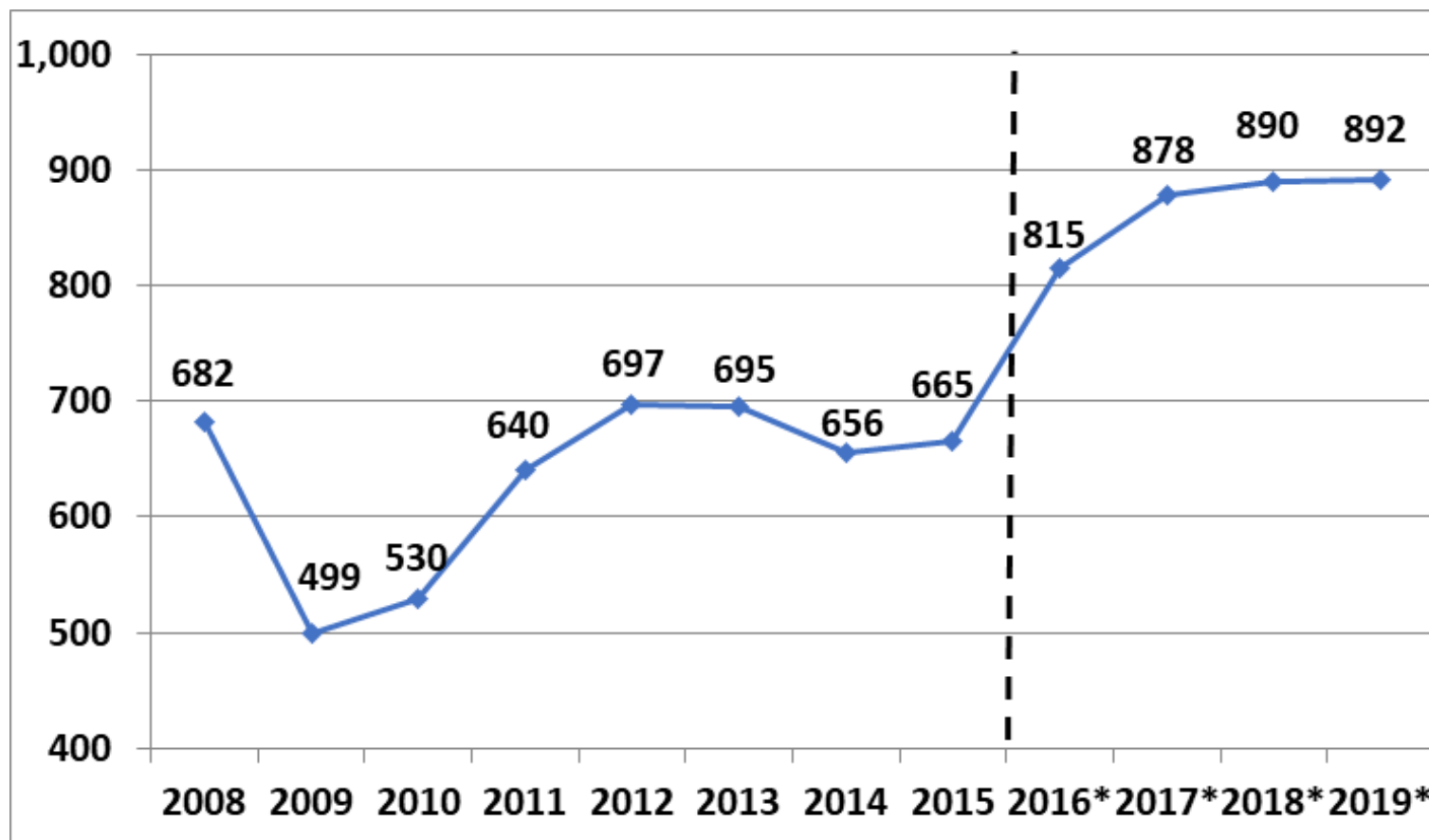
Large Truck Drivers with Positive Drug Test Results in Fatal Crashes, 2012–2019



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

**In 2016, NHTSA made changes to revise the light pickup truck classification and reclassified 329 vehicles as large trucks (based on GVWR). Due to this methodology change, comparisons of 2016 FARS large truck data with prior years should be performed with caution.*

Large Truck Occupant Fatalities, 2008–2019



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

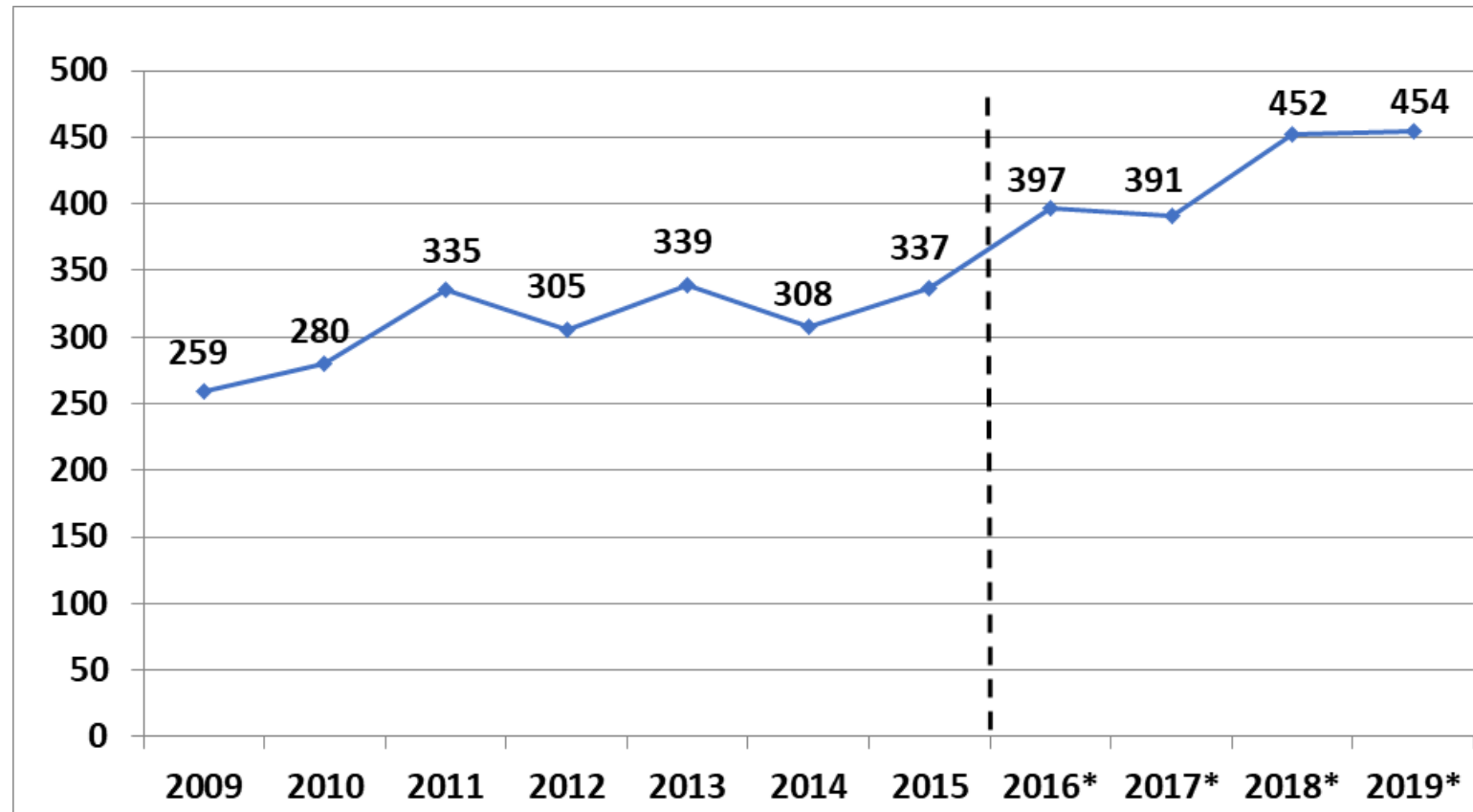
**In 2016, NHTSA made changes to revise the light pickup truck classification and reclassified 329 vehicles as large trucks (based on GVWR). Due to this methodology change, comparisons of 2016 FARS large truck data with prior years should be performed with caution.*

Large Truck Occupants in Fatal Crashes by Injury Severity and Restraint Use, 2019

Injury Severity	Restraint Use							
	None		Yes		Unknown		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Fatal Injury	337	42.4%	393	8.3%	162	35.8%	892	15.0%
Injury	169	21.3%	694	14.7%	44	9.7%	907	15.2%
Unknown Injury Severity	74	9.3%	550	11.7%	60	13.2%	684	11.5%
No Apparent Injury	215	27.0%	3,075	65.3%	187	41.3%	3,477	58.3%
Total	795	100.0%	4,712	100.0%	453	100.0%	5,960	100.0%

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

Pedestrian Fatalities in Large Truck Crashes, 2009–2019



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

**In 2016, NHTSA made changes to revise the light pickup truck classification and reclassified 329 vehicles as large trucks (based on GVWR). Due to this methodology change, comparisons of 2016 FARS large truck data with prior years should be performed with caution.*

Fatal Crashes by Work Zone, 2015–2019

Work Zone	2015	2016*	2017*	2018*	2019*
Crashes Involving Large Trucks					
Fatal Crashes in Work Zones	175	194	221	207	248
Fatalities in Crashes in Work Zones	195	242	270	233	289
Total	3,622	4,177	4,367	4,461	4,479
All Crashes					
Fatal Crashes in Work Zones	653	687	720	672	762
Fatalities in Crashes in Work Zones	711	781	809	756	842
Total	32,539	34,748	34,560	33,919	33,244
Percentage of Fatal Work Zone Crashes That Involved at Least One Large Truck	26.8%	28.2%	30.7%	30.8%	32.5%
Percentage of All Fatal Crashes That Involved at Least One Large Truck	11.1%	12.0%	12.6%	13.2%	13.5%

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

**In 2016, NHTSA made changes to revise the light pickup truck classification and reclassified 329 vehicles as large trucks (based on GVWR). Due to this methodology change, comparisons of 2016 FARS large truck data with prior years should be performed with caution.*

Top Ten Driver-Related Factors for Large Truck Drivers in Fatal Crashes, 2019

Driver-Related Factors	Number	Percent
Speeding of Any Kind	374	7.6%
Distraction/inattention (Cell Phone, Lost in Thought, Eating, etc.)	261	5.3%
Impairment (Fatigue, Alcohol, Illness, etc.)	232	4.7%
Failure to Yield Right of Way	229	4.6%
Careless Driving	219	4.4%
Vision Obscured (by Weather, Roadway Design, Vehicles, etc.)	167	3.4%
Improper Lane Usage	146	3.0%
Failure to Obey Actual Traffic Sign, Devices, Officers, Laws	116	2.3%
Following Improperly	108	2.2%
Ice, Water, Snow, Slush, Sand, Dirt, Oil, Wet Leaves on Road	77	1.6%
At Least One Driver-Related Factor Recorded	1,628	32.9%
No Driver-Related Factors Recorded	3,321	67.1%
Total Large Truck Drivers in Fatal Crashes	4,949	100.0%
At Least One Moving Violation Recorded	464	9.4%
No Moving Violations Recorded	4,485	90.6%
Total Large Truck Drivers in Fatal Crashes	4,949	100.0%

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

Driving Behaviors

- Occupant Restraints
- Cell Phone Use & Texting
- Distraction
- Unsafe Driving – Speed
- Unsafe Driving – Impairment



Seeking Solutions: What can FMCSA do differently?

- Truck and bus roadside inspections – 3.5 million
- Risk-based carrier safety investigations – 8,000
- Rulemaking
 - Drug & Alcohol Clearinghouse
 - Electronic logging devices
 - Hours of service reform
- **Our Roads Our Safety Campaign**
- **Traffic enforcement** – Highly visible traffic enforcement changes behavior and saves lives
 - Unsafe speed
 - Cell phone use & texting
 - Impaired driving – alcohol & drugs
 - Occupant restraint use
- **CDL driver disqualification**
- **CMV technology**

Contact Information

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