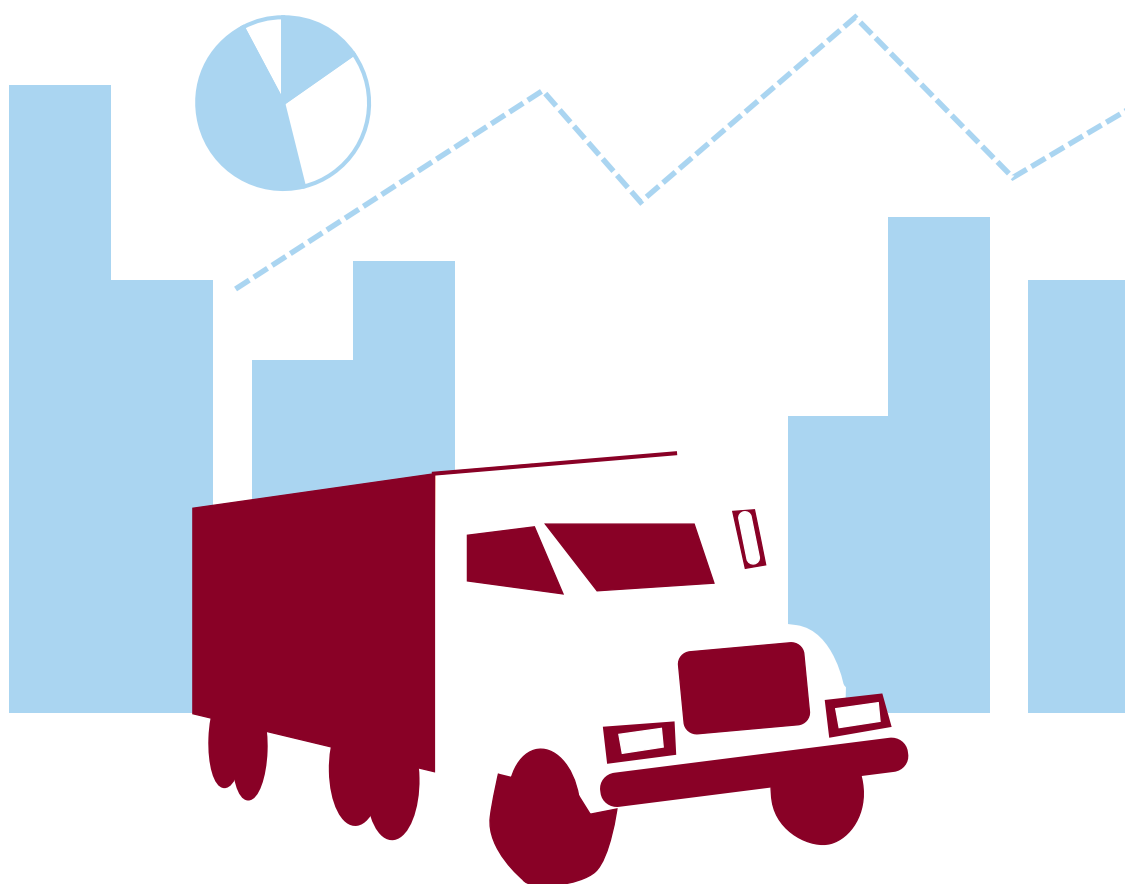


TRUCKS INVOLVED IN FATAL ACCIDENTS FACTBOOK 2008



Center for National Truck and Bus Statistics
University of Michigan Transportation Research Institute
2901 Baxter Road • Ann Arbor, Michigan 48109-2150

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Linda Jarossi

Anne Matteson

John Woodrooffe

March 2011

Center for National Truck and Bus Statistics

The University of Michigan
Transportation Research Institute
Ann Arbor, Michigan 48109-2150

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16. Abstract <p>This document presents aggregate statistics on trucks involved in traffic accidents in 2008. The statistics are derived from the Trucks Involved in Fatal Accidents (TIFA) file, compiled by the University of Michigan Transportation Research Institute. The TIFA database provides coverage of all medium and heavy trucks recorded in the Fatality Analysis Reporting System (FARS) file. TIFA combines vehicle, accident, and occupant records from FARS with information about the physical configuration and operating authority of the truck from the TIFA survey.</p>					
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SI* (MODERN METRIC) CONVERSION FACTORS

APPROXIMATE CONVERSIONS TO SI UNITS					APPROXIMATE CONVERSIONS FROM SI UNITS				
Symbol	When You Know	Multiply By	To Find	Symbol	Symbol	When You Know	Multiply By	To Find	Symbol
LENGTH					LENGTH				
	inches	25.4	millimeters	mm	mm	millimeters	0.039	inches	in
in									
ft	feet	0.305	meters	m	m	meters	3.28	feet	ft
yd	yards	0.914	meters	m	m	meters	1.09	yards	yd
mi	miles	1.61	kilometers	km	km	kilometers	0.621	miles	mi
AREA					AREA				
in ²	square inches	645.2	square millimeters	mm ²	mm ²	square millimeters	0.0016	square inches	in ²
ft ²	square feet	0.093	square meters	m ²	m ²	square meters	10.764	square feet	ft ²
yd ²	square yards	0.836	square meters	m ²	m ²	square meters	1.195	square yards	yd ²
ac	acres	0.405	hectares	ha	ha	hectares	2.47	acres	ac
mi ²	square miles	2.59	square kilometers	km ²	km ²	square kilometers	0.386	square miles	mi ²
VOLUME					VOLUME				
fl oz	fluid ounces	29.57	milliliters	mL	mL	milliliters	0.034	fluid ounces	fl oz
gal	gallons	3.785	liters	L	L	liters	0.264	gallons	gal
ft ³	cubic feet	0.028	cubic meters	m ³	m ³	cubic meters	35.71	cubic feet	ft ³
yd ³	cubic yards	0.765	cubic meters	m ³	m ³	cubic meters	1.307	cubic yards	yd ³
NOTE: Volumes greater than 1000 L shall be shown in m ³ .									
MASS					MASS				
oz	ounces	28.35	grams	g	g	grams	0.035	ounces	oz
lb	pounds	0.454	kilograms	kg	kg	kilograms	2.202	pounds	lb
T	short tons (2000 lb)	0.907	megagrams (or "metric ton")	Mg (or "t")	Mg (or "t")	megagrams (or "metric ton")	1.103	short tons (2000 lb)	T
TEMPERATURE (exact)					TEMPERATURE (exact)				
°F	Fahrenheit temperature	5(F-32)/9 or (F-32)/1.8	Celcius temperature	°C	°C	Celcius temperature	1.8C + 32	Fahrenheit temperature	°F
ILLUMINATION					ILLUMINATION				
fc	foot-candles	10.76	lux	lx	lx	lux	0.0929	foot-candles	fc
fl	foot-Lamberts	3.426	candela/m ²	cd/m ²	cd/m ²	candela/m ²	0.2919	foot-lamberts	fl
FORCE and PRESSURE or STRESS					FORCE and PRESSURE or STRESS				
lbf	poundforce	4.45	newtons	N	N	newtons	0.225	poundforce	lbf
lbf/in ²	poundforce per square inch	6.89	kilopascals	kPa	kPa	kilopascals	0.145	poundforce per square inch	lbf/in ²

* SI is the symbol for the International System of Units. Appropriate rounding should be made to comply with Section 4 of ASTM E380.

(Revised September 1993)

Acknowledgments

The data documented in this report are the product of the dedicated efforts of many people. The project originated under the direction of Ken Campbell. Daniel Blower directs the current project. Leslie Pettis, Daniel Hershberger, Robert Allen, Robert Pichler, and many interviewers made the accuracy of the data a matter of personal pride. The project would not have been possible without the willing cooperation of thousands of truck owners, operators, and police officers across the country.

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Introduction

This report, *Trucks Involved in Fatal Accidents Factbook, 2008*, provides descriptive statistics about medium and heavy trucks involved in fatal accidents. The data come from the Trucks Involved in Fatal Accidents (TIFA) survey program of the Center for National Truck and Bus Statistics (CNTBS) at the University of Michigan Transportation Research Institute (UMTRI). All records in the TIFA file are for trucks with a Gross Vehicle Weight Rating (GVWR) over 10,000 pounds.

The TIFA file is produced annually from a survey of truck records extracted from the Fatality Analysis Reporting System (FARS) file, compiled by the National Center for Statistics and Analysis at the National Highway Traffic Safety Administration. Accident, vehicle, and driver records that appear to involve a medium or heavy truck are selected from the FARS file. Police reports for each accident represented are requested from the appropriate states. The 2008 TIFA file is a census file, meaning there is one record for each of the 4,352 medium and heavy trucks involved in a fatal accident that year.

Trained and experienced interviewers contact individuals knowledgeable about the truck, including drivers, safety officers, police officers, emergency personnel, and witnesses. The interviewers verify that the vehicle is a truck and then collect information about the truck, truck driver, and the motor carrier that operated the truck. The interview produces a detailed description of the physical configuration of the truck, the operating authority of the truck, and the trip the truck was on at the time of the accident. Editors review each case to ensure accuracy and consistency.

The TIFA file combines the detailed physical description of the vehicle from the TIFA survey with matching accident, driver, and vehicle data from the FARS file. Almost all variables in FARS describing the accident, vehicle, and driver are included in the TIFA file. No FARS data are altered or corrected. The TIFA variables supplement the FARS data with extensive detail on the truck, including cab style; axle counts for each unit in the truck configuration; cargo body and cargo type for each unit; truck operating authority; type of trip; hours driving; and the truck's role in the accident. The methodology, as well as a complete list of variables and data in the TIFA survey, is fully documented in *Trucks Involved in Fatal Accidents Codebook, 2008*.

Report overview

This report consists of six sections. The "Trends" section provides data on fatalities and fatal accident involvements from 2004 through 2008. The "Accident conditions" section provides information about the accidents the trucks were involved in, including distributions of truck fatal involvements across states, and information about the weather, road type, and roadway condition at the time of the accident. The "Vehicle" section includes information about truck configuration, cargo body type and cargo carried, and axle counts of the trucks. The "Driver" section includes information about truck driver injury, licensing, type of

compensation, previous driving record, age, sex, and other driver characteristics. The “Straight trucks” section focuses on the characteristics of straight trucks, providing more detail about truck configuration, accident environment, and the truck’s role in the accident. Finally, the “Tractors” section provides similar data on tractor combinations involved in fatal accidents.

Virtually all tables present counts of involvements; that is, counts of the trucks involved in a fatal accident by various factors and conditions of interest.

Trends, 2004-2008

This section contains tables displaying trends in truck involvements in fatal traffic accidents and in the number of persons killed in those accidents. The trends are presented by truck configuration, state, and person type. The truck configurations include straight trucks with no trailers, straight trucks pulling a single trailer, bobtails (tractors with no trailers), tractors with one semitrailer, tractors with two trailers (doubles), and all other truck configurations. The “other combinations” includes both straight truck and tractor configurations that do not fit into any of the previous categories.

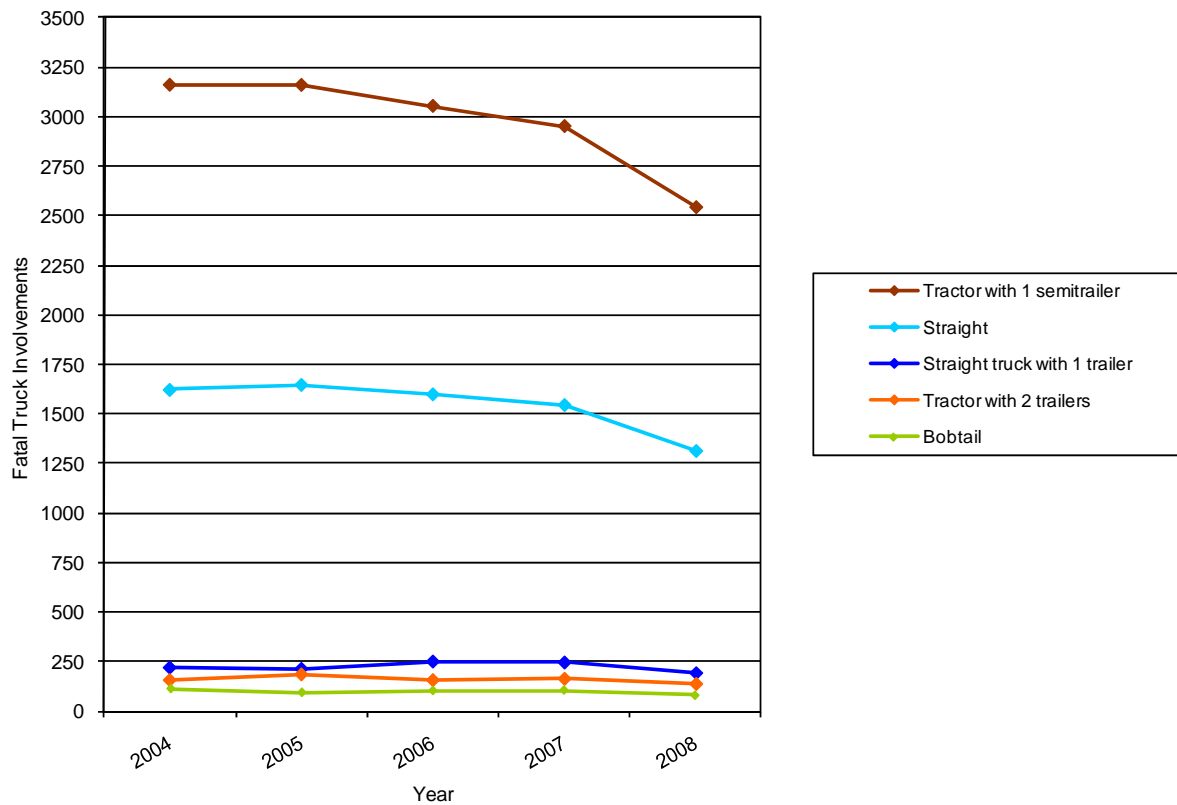
- An average of about 5,061 trucks are involved in a fatal traffic accident each year.
- Tractors pulling one semitrailer are the most common truck configuration involved, accounting for about 59% of all trucks involved in a fatal accident.
- Texas, California, and Florida had the greatest number of truck involvements over the period 2004 to 2008.
- The number of persons killed in accidents involving a truck decreased from 5,663 in 2004 to 4,508 in 2008.
- The number of truck drivers killed in traffic accidents decreased from 700 in 2004 to 639 in 2008.
- An average of 362 pedestrians and 87 cyclists (bicycles, unicycles, tricycles) are killed each year in traffic accidents involving trucks.

Annual fatal involvements

Table 1-1
Fatal Truck Involvements by Year and Truck Configuration

Accident year	Straight truck	Straight truck with 1 trailer	Bobtail	Tractor with 1 semitrailer	Tractor with 2 trailers	Other combinations	Unknown	Total
	N	N	N	N	N	N	N	N
2004	1622	221	111	3160	156	33	10	5313
2005	1647	215	93	3159	185	32	12	5343
2006	1600	252	102	3054	156	36	50	5250
2007	1546	247	104	2953	162	26	11	5049
2008	1315	193	79	2547	136	22	60	4352
Total	7730	1128	489	14873	795	149	143	25307

Figure 1-1
Fatal Truck Involvements by Year and Truck Configuration



**Table 1-2
Fatal Truck Involvements by Year and All Truck Configurations**

Configuration	2004	2005	2006	2007	2008	Total
	N	N	N	N	N	N
Straight only	1622	1647	1600	1546	1315	7730
Straight + full trailer	41	38	40	43	38	200
Straight + other	138	129	164	139	104	674
Straight + gooseneck hitch + other	42	48	48	65	50	253
Straight + A-dolly + semitrailer	0	0	0	0	1	1
Wrecker + tow	11	11	5	8	6	41
Straight, unknown if trailer	11	5	10	2	1	29
Straight + 2 full trailers	0	1	0	0	0	1
Straight + other (gooseneck) + other	1	0	0	0	0	1
Bobtail tractor	98	90	95	94	68	445
Tractor carrying cargo	13	3	7	10	11	44
Tractor and semitrailer	3160	3159	3054	2953	2547	14873
Tractor + other	5	11	7	7	8	38
Tractor + semi + A dolly	0	0	2	0	0	2
Tractor + full trailer	0	0	1	1	0	2
Tractor + gooseneck + other	0	0	5	1	0	6
Double with A dolly	81	124	86	104	89	484
Double, B train	2	1	2	4	2	11
Double with C dolly	4	0	2	3	0	9
Double with unknown dolly type	7	6	6	4	4	27
Tractor + semi + full	58	53	59	43	38	251
Tractor + semi + other	1	0	1	2	0	4
Tractor + ballhitch + 2 other trailers	0	0	0	1	0	1
Tractor + semi + unknown	3	1	0	1	3	8
Triple with A dollies	0	3	2	2	1	8
Tractor + jeep + semi + jeep	1	0	0	0	0	1
Tractor + semi + jeep	1	0	1	0	1	3
Tractor + jeep + semi	2	0	1	3	0	6
Tractor + jeep + semitrailer + other	0	0	2	1	1	4
Tractor + saddlemount tractor	0	0	0	0	2	2
Tractor + 2 saddlemount tractors	1	0	0	0	0	1
Tractor + 3 saddlemount tractors	0	1	0	1	1	3
Wrecker + tow + tow + tow	0	0	0	0	1	1
Unknown	10	12	50	11	60	143
Total	5313	5343	5250	5049	4352	25307

**Table 1-3
Fatal Truck Involvements by Year and State**

State	2004	2005	2006	2007	2008	Total
	N	N	N	N	N	N
Alabama	150	125	136	132	127	670
Alaska	15	4	7	7	5	38
Arizona	111	95	144	102	98	550
Arkansas	99	142	111	116	83	551
California	405	385	403	421	318	1932
Colorado	78	71	83	89	63	384
Connecticut	30	20	29	25	28	132
Delaware	19	8	20	7	7	61
District of Columbia	6	3	2	2	1	14
Florida	399	431	368	316	299	1813
Georgia	256	253	251	246	195	1201
Hawaii	7	5	8	3	6	29
Idaho	32	32	27	28	32	151
Illinois	163	203	169	154	144	833
Indiana	175	146	146	155	135	757
Iowa	64	71	80	74	72	361
Kansas	86	77	70	79	56	368
Kentucky	132	120	121	111	106	590
Louisiana	108	138	114	126	112	598
Maine	19	18	22	20	26	105
Maryland	82	66	69	68	47	332
Massachusetts	40	27	36	30	22	155
Michigan	126	115	123	121	96	581
Minnesota	69	62	63	79	63	336
Mississippi	90	92	91	73	75	421
Missouri	159	169	145	152	117	742
Montana	18	24	27	33	32	134
Nebraska	43	53	29	44	42	211
Nevada	33	53	50	26	27	189
New Hampshire	13	13	7	13	13	59
New Jersey	99	115	83	77	54	428
New Mexico	66	63	74	65	46	314
New York	141	147	173	153	120	734
North Carolina	194	213	159	159	145	870
North Dakota	17	12	17	13	17	76
Ohio	191	180	162	137	135	805
Oklahoma	120	128	156	115	123	642
Oregon	55	64	58	59	41	277
Pennsylvania	220	203	198	224	198	1043
Rhode Island	4	1	8	6	2	21
South Carolina	108	131	104	98	89	530
South Dakota	20	16	21	17	13	87
Tennessee	151	149	148	150	95	693
Texas	482	512	512	532	483	2521
Utah	29	32	37	46	35	179
Vermont	14	9	12	4	7	46
Virginia	110	125	117	112	84	548
Washington	55	60	78	74	65	332
West Virginia	63	50	48	47	49	257
Wisconsin	97	86	79	83	71	416
Wyoming	50	26	55	26	33	190
Total	5313	5343	5250	5049	4352	25307

Table 1-4
Fatal Truck Involvements by Year and State – STRAIGHT TRUCKS ONLY

State	2004	2005	2006	2007	2008	Total
	N	N	N	N	N	N
Alabama	51	40	43	45	36	215
Alaska	4	2	4	2	2	14
Arizona	44	32	51	42	26	195
Arkansas	18	34	30	19	24	125
California	152	147	152	156	135	742
Colorado	35	27	25	40	18	145
Connecticut*	18	13	15	13	1	60
Delaware	9	5	11	2	4	31
District of Columbia	4	1	2	2	1	10
Florida	160	204	160	157	121	802
Georgia	92	81	77	92	72	414
Hawaii	5	3	8	3	4	23
Idaho	12	13	13	11	8	57
Illinois	50	49	38	37	35	209
Indiana	47	40	40	45	38	210
Iowa	18	17	24	17	17	93
Kansas	21	18	19	22	15	95
Kentucky	43	35	48	36	33	195
Louisiana	26	49	35	34	38	182
Maine	8	5	8	8	12	41
Maryland	41	34	37	38	21	171
Massachusetts	23	9	18	18	11	79
Michigan	49	49	46	35	43	222
Minnesota	26	22	26	26	24	124
Mississippi	15	23	22	12	14	86
Missouri	48	61	53	47	36	245
Montana	8	10	11	10	10	49
Nebraska	11	18	5	13	10	57
Nevada	10	13	11	8	9	51
New Hampshire	5	6	4	10	5	30
New Jersey	57	49	39	34	31	210
New Mexico	11	13	14	19	9	66
New York	78	80	88	78	58	382
North Carolina	73	83	63	53	57	329
North Dakota	8	6	7	7	8	36
Ohio	67	50	52	42	46	257
Oklahoma	42	41	47	44	42	216
Oregon	29	20	19	25	13	106
Pennsylvania*	73	73	79	70	74	369
Rhode Island	2	1	5	2	1	11
South Carolina	38	44	33	34	33	182
South Dakota	8	4	11	8	5	36
Tennessee	42	49	54	46	22	213
Texas	146	153	166	186	157	808
Utah	10	13	11	20	12	66
Vermont	5	5	5	2	2	19
Virginia	43	52	41	40	33	209
Washington	20	27	42	36	32	157
West Virginia	17	17	14	14	19	81
Wisconsin	38	32	28	36	31	165
Wyoming	6	7	13	7	8	41
Total	1866	1879	1867	1803	1516	8931

Table includes all truck combinations where the power unit was a straight truck.

*Truck type for 2008 could not be determined accurately due to missing police reports.

Table 1-5
Fatal Truck Involvements by Year and State – TRACTOR-SEMITRAILERS ONLY

State	2004	2005	2006	2007	2008	Total
	N	N	N	N	N	N
Alabama	94	82	87	84	86	433
Alaska	8	1	2	2	2	15
Arizona	59	61	79	51	69	319
Arkansas	76	102	75	88	53	394
California	194	183	193	207	141	918
Colorado	41	38	51	47	42	219
Connecticut*	10	6	13	11	1	41
Delaware	9	3	9	4	3	28
District of Columbia	2	2	0	0	0	4
Florida	230	210	203	148	169	960
Georgia	155	164	164	140	117	740
Hawaii	2	2	0	0	2	6
Idaho	17	15	11	15	19	77
Illinois	105	141	122	109	106	583
Indiana	113	101	97	106	92	509
Iowa	44	53	53	54	53	257
Kansas	61	49	51	55	38	254
Kentucky	84	80	67	71	69	371
Louisiana	74	82	71	88	67	382
Maine	10	12	14	12	14	62
Maryland	37	32	31	30	24	154
Massachusetts	16	17	11	9	11	64
Michigan	68	56	68	77	47	316
Minnesota	43	37	34	50	35	199
Mississippi	73	67	63	59	55	317
Missouri	104	98	86	96	71	455
Montana	8	12	11	17	17	65
Nebraska	31	32	22	28	32	145
Nevada	13	30	33	14	16	106
New Hampshire	6	7	3	3	8	27
New Jersey	42	62	40	40	23	207
New Mexico	48	45	52	42	31	218
New York	58	60	82	68	58	326
North Carolina	110	125	84	99	83	501
North Dakota	8	5	8	6	9	36
Ohio	117	127	104	88	83	519
Oklahoma	72	82	104	67	79	404
Oregon	22	37	29	25	21	134
Pennsylvania*	141	114	111	145	91	602
Rhode Island	2	0	3	4	1	10
South Carolina	66	79	64	60	51	320
South Dakota	10	10	10	8	6	44
Tennessee	100	94	84	95	66	439
Texas	319	336	319	324	311	1609
Utah	18	15	21	19	16	89
Vermont	9	4	5	2	5	25
Virginia	63	68	70	68	49	318
Washington	28	25	23	25	24	125
West Virginia	46	31	33	31	26	167
Wisconsin	57	52	48	45	37	239
Wyoming	37	13	36	17	18	121
Total	3160	3159	3054	2953	2547	14873

*Truck type in 2008 could not be determined accurately due to missing police reports.

Table 1-6
Fatal Truck Involvements by Year and State – DOUBLES ONLY

State	2004	2005	2006	2007	2008	Total
	N	N	N	N	N	N
Alabama	2	1	1	2	3	9
Alaska	2	1	0	2	1	6
Arizona	4	1	7	5	2	19
Arkansas	2	3	5	4	4	18
California	45	49	45	40	31	210
Colorado	0	3	2	1	1	7
Connecticut*	0	1	0	0	0	1
Delaware	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0
Florida	1	6	3	6	4	20
Georgia	2	5	3	4	3	17
Hawaii	0	0	0	0	0	0
Idaho	2	3	3	0	2	10
Illinois	4	8	4	5	1	22
Indiana	9	3	2	3	5	22
Iowa	0	1	0	1	2	4
Kansas	3	5	0	1	3	12
Kentucky	2	2	4	2	3	13
Louisiana	2	1	3	1	4	11
Maine	0	0	0	0	0	0
Maryland	1	0	0	0	2	3
Massachusetts	1	0	2	1	0	4
Michigan	8	8	3	6	4	29
Minnesota	0	1	2	0	1	4
Mississippi	0	1	2	0	2	5
Missouri	2	3	2	5	4	16
Montana	1	2	4	5	5	17
Nebraska	0	1	0	3	0	4
Nevada	9	9	4	3	1	26
New Hampshire	0	0	0	0	0	0
New Jersey	0	2	1	1	0	4
New Mexico	5	3	2	2	5	17
New York	2	4	0	2	1	9
North Carolina	6	1	3	2	2	14
North Dakota	1	1	1	0	0	3
Ohio	5	2	3	4	2	16
Oklahoma	1	2	3	3	0	9
Oregon	3	4	4	7	1	19
Pennsylvania*	3	9	4	5	3	24
Rhode Island	0	0	0	0	0	0
South Carolina	1	0	2	1	3	7
South Dakota	2	1	0	1	1	5
Tennessee	4	3	2	4	4	17
Texas	7	15	13	8	5	48
Utah	1	3	4	5	6	19
Vermont	0	0	0	0	0	0
Virginia	1	2	2	1	2	8
Washington	5	7	7	10	6	35
West Virginia	0	1	0	2	3	6
Wisconsin	1	2	0	2	0	5
Wyoming	6	5	4	2	4	21
Total	156	185	156	162	136	795

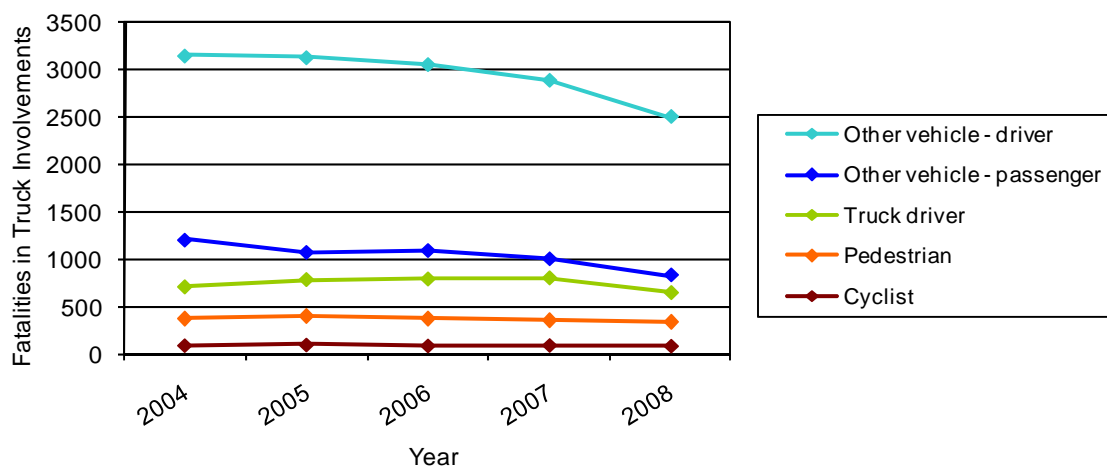
*Truck type in 2008 could not be determined accurately due to missing police reports.

Annual fatalities

Table 1-7
Fatalities in Truck Involvements by Year and Person Type

Vehicle/Person type	2004		2005		2006		2007		2008	
	N	%	N	%	N	%	N	%	N	%
<i>Truck</i>										
Driver	700	12.4	778	13.8	784	14.2	796	15.2	639	14.2
Passenger	156	2.8	147	2.6	142	2.6	119	2.3	120	2.7
Unknown occupant type	2	0.0	0	0.0	2	0.0	4	0.1	2	0.0
Truck total	858	15.2	925	16.5	928	16.8	919	17.5	761	16.9
<i>Other vehicle</i>										
Drivers	3138	55.4	3120	55.5	3046	55.0	2877	54.8	2487	55.2
Passengers	1198	21.2	1065	18.9	1085	19.6	995	19.0	820	18.2
Unknown occupant type	3	0.1	2	0.0	7	0.1	1	0.0	6	0.1
Other vehicle total	4339	76.6	4187	74.5	4138	74.7	3873	73.8	3313	73.5
<i>Non-motorists</i>										
In parked vehicle	7	0.1	25	0.4	17	0.3	13	0.2	13	0.3
Pedestrian	366	6.5	392	7.0	366	6.6	350	6.7	334	7.4
Cyclists/personal conveyance	87	1.5	94	1.7	84	1.5	89	1.7	81	1.8
Other/unknown	6	0.1	0	0.0	4	0.1	4	0.1	6	0.1
Non-motorist total	466	8.2	511	9.1	471	8.5	456	8.7	434	9.6
Total	5663	100.0	5623	100.0	5537	100.0	5248	100.0	4508	100.0

Figure 1-2
Fatalities in Truck Involvements by Year and Person Type



Accident conditions

This section provides statistics that describe conditions at the scene of fatal traffic accidents involving trucks. Tables present various accident characteristics, including the geographic distribution of truck involvements, temporal and environmental conditions, as well as distributions of collision type and the truck's role in the accident. Though the tables focus on accident-level characteristics, all tables show counts of trucks involved in fatal accidents, rather than counts of accidents. Some fatal traffic accidents include more than one truck.

- February had the greatest number of fatal involvements with 402, while March had the fewest with 297.
- Almost two-thirds of fatal accident involvements occur in rural areas, and in daylight.
- 80.9% of fatal accident involvements occur on dry roads.
- 84.7% of fatal accident involvements occur in “normal” (i.e., no precipitation) weather conditions.
- 29.4% of fatal involvements occur on state highways, 23.8% on U.S. highways, and 27.1% on Interstate highways.
- In 11.0% of fatal involvements, the other vehicle crossed the center line of the road and struck the truck head on.

Geographic distributions

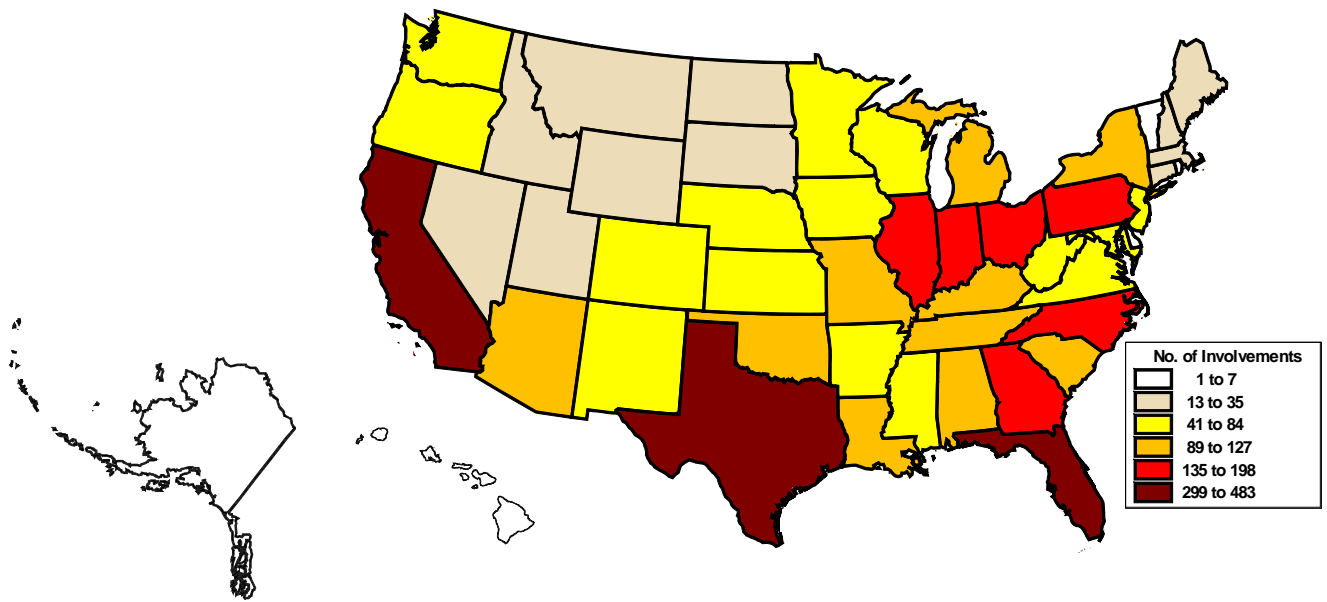


Figure 2-1
Fatal Truck Involvements by State

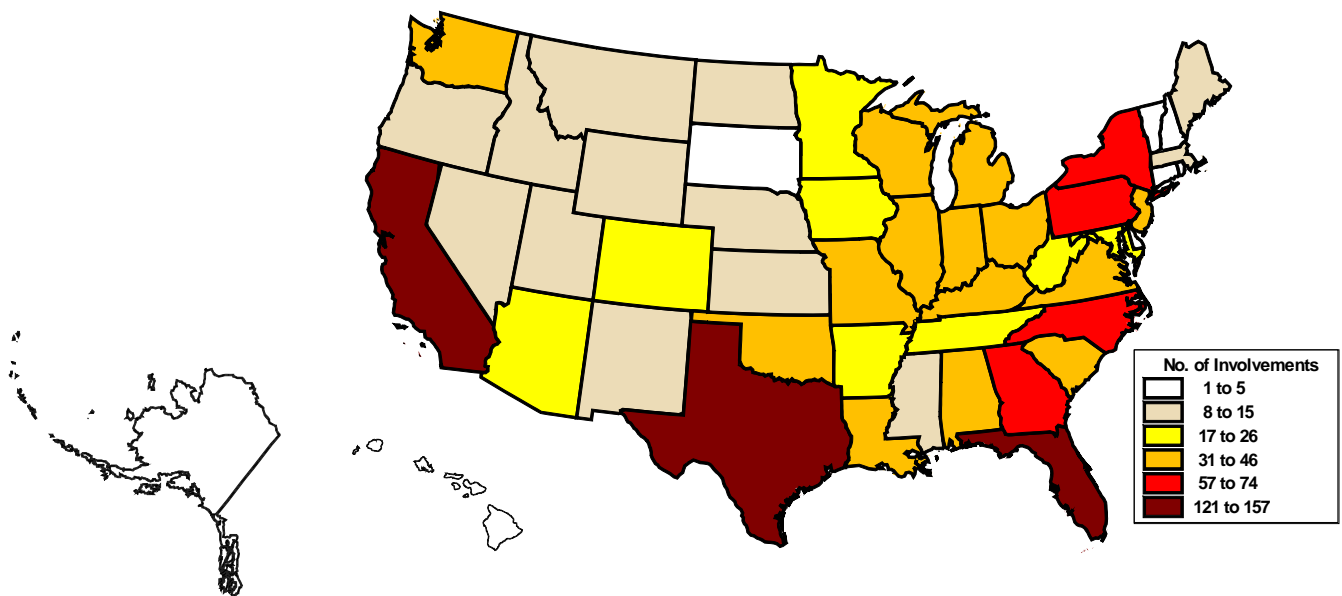


Figure 2-2
Fatal Truck Involvements by State – STRAIGHT TRUCKS ONLY

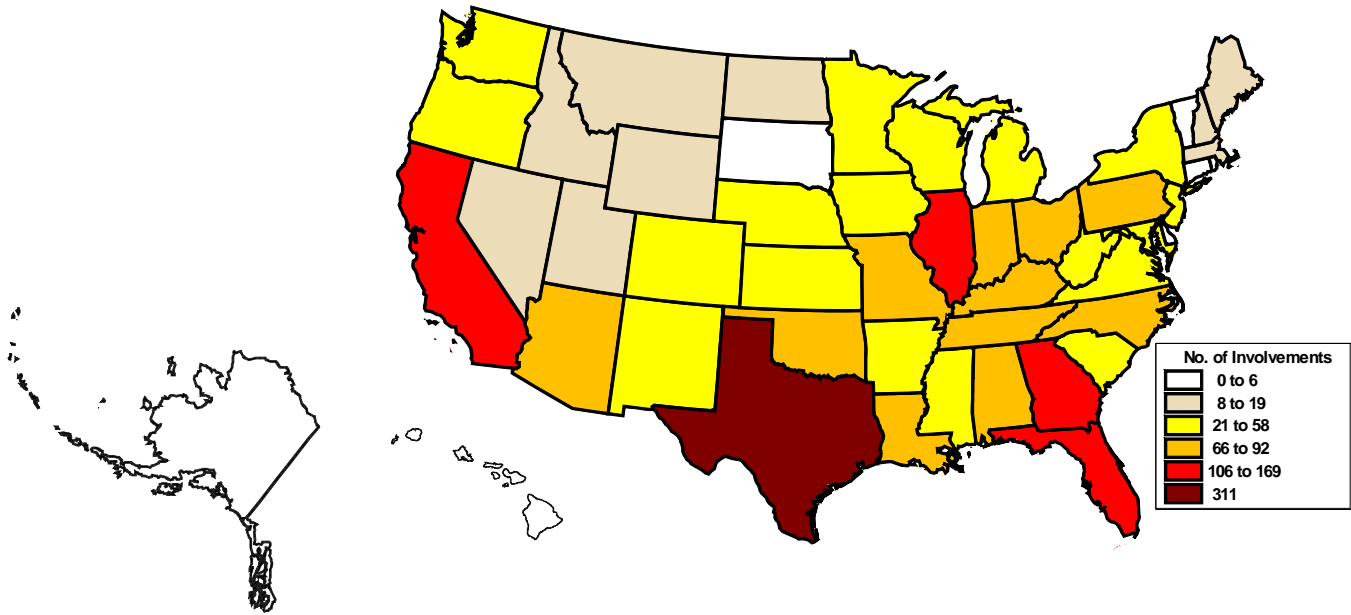


Figure 2-3
Fatal Truck Involvements by State – TRACTOR-SEMITRAILERS ONLY

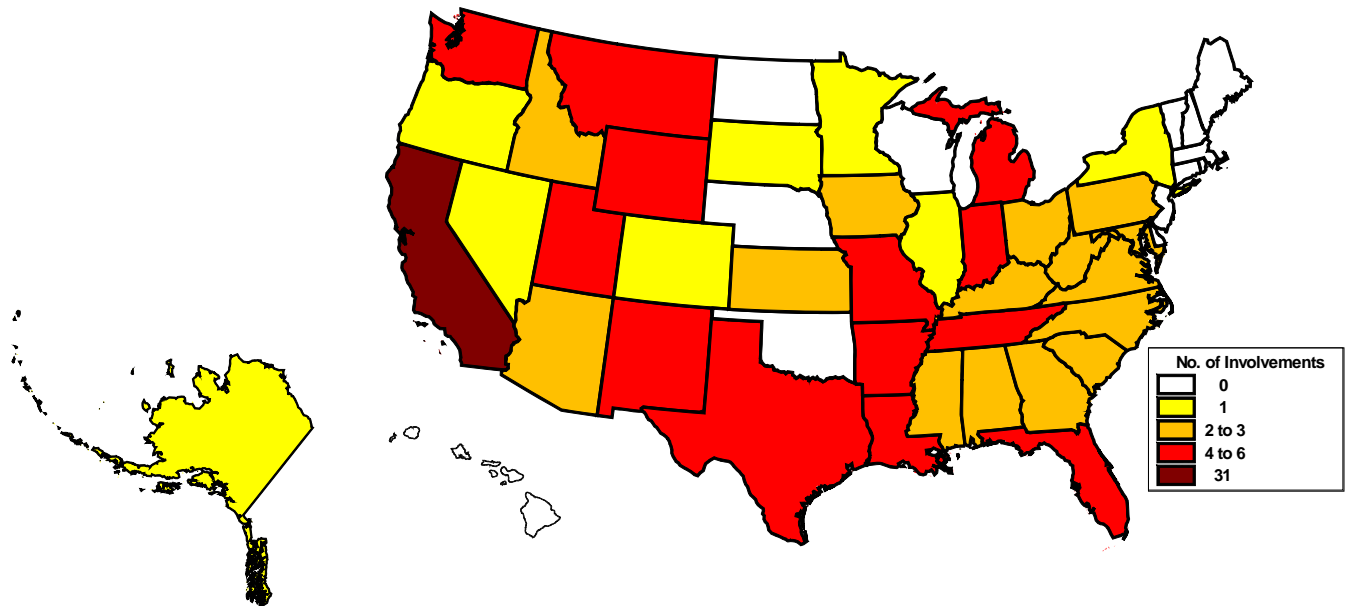


Figure 2-4
Fatal Truck Involvements by State – DOUBLES ONLY

**Table 2-1
Fatal Truck Involvements by State and Truck Configuration**

State	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Alabama	31	2.4	5	2.6	2	2.5	86	3.4	3	2.2	0	0.0	0	0.0	127	2.9
Alaska	2	0.2	0	0.0	0	0.0	2	0.1	1	0.7	0	0.0	0	0.0	5	0.1
Arizona	20	1.5	6	3.1	0	0.0	69	2.7	2	1.5	0	0.0	1	1.7	98	2.3
Arkansas	20	1.5	4	2.1	2	2.5	53	2.1	4	2.9	0	0.0	0	0.0	83	1.9
California	120	9.1	14	7.3	11	13.9	141	5.5	31	22.8	1	4.5	0	0.0	318	7.3
Colorado	16	1.2	2	1.0	1	1.3	42	1.6	1	0.7	1	4.5	0	0.0	63	1.4
Connecticut*	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	26	43.3	28	0.6
Delaware	3	0.2	1	0.5	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	7	0.2
District of Columbia	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Florida	110	8.4	10	5.2	5	6.3	169	6.6	4	2.9	1	4.5	0	0.0	299	6.9
Georgia	64	4.9	8	4.1	3	3.8	117	4.6	3	2.2	0	0.0	0	0.0	195	4.5
Hawaii	4	0.3	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	6	0.1
Idaho	6	0.5	2	1.0	2	2.5	19	0.7	2	1.5	1	4.5	0	0.0	32	0.7
Illinois	32	2.4	2	1.0	2	2.5	106	4.2	1	0.7	1	4.5	0	0.0	144	3.3
Indiana	37	2.8	1	0.5	0	0.0	92	3.6	5	3.7	0	0.0	0	0.0	135	3.1
Iowa	16	1.2	1	0.5	0	0.0	53	2.1	2	1.5	0	0.0	0	0.0	72	1.7
Kansas	14	1.1	1	0.5	0	0.0	38	1.5	3	2.2	0	0.0	0	0.0	56	1.3
Kentucky	28	2.1	5	2.6	1	1.3	69	2.7	3	2.2	0	0.0	0	0.0	106	2.4
Louisiana	31	2.4	6	3.1	3	3.8	67	2.6	4	2.9	1	4.5	0	0.0	112	2.6
Maine	10	0.8	2	1.0	0	0.0	14	0.5	0	0.0	0	0.0	0	0.0	26	0.6
Maryland	21	1.6	0	0.0	0	0.0	24	0.9	2	1.5	0	0.0	0	0.0	47	1.1
Massachusetts	10	0.8	1	0.5	0	0.0	11	0.4	0	0.0	0	0.0	0	0.0	22	0.5
Michigan	30	2.3	12	6.2	2	2.5	47	1.8	4	2.9	1	4.5	0	0.0	96	2.2
Minnesota	22	1.7	2	1.0	0	0.0	35	1.4	1	0.7	3	13.6	0	0.0	63	1.4
Mississippi	12	0.9	2	1.0	1	1.3	55	2.2	2	1.5	0	0.0	3	5.0	75	1.7
Missouri	31	2.4	4	2.1	3	3.8	71	2.8	4	2.9	3	13.6	1	1.7	117	2.7
Montana	8	0.6	2	1.0	0	0.0	17	0.7	5	3.7	0	0.0	0	0.0	32	0.7
Nebraska	6	0.5	4	2.1	0	0.0	32	1.3	0	0.0	0	0.0	0	0.0	42	1.0
Nevada	6	0.5	3	1.6	1	1.3	16	0.6	1	0.7	0	0.0	0	0.0	27	0.6
New Hampshire	5	0.4	0	0.0	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	13	0.3
New Jersey	27	2.1	4	2.1	0	0.0	23	0.9	0	0.0	0	0.0	0	0.0	54	1.2
New Mexico	8	0.6	1	0.5	1	1.3	31	1.2	5	3.7	0	0.0	0	0.0	46	1.1
New York	56	4.3	2	1.0	1	1.3	58	2.3	1	0.7	1	4.5	1	1.7	120	2.8
North Carolina	52	4.0	5	2.6	2	2.5	83	3.3	2	1.5	1	4.5	0	0.0	145	3.3
North Dakota	7	0.5	1	0.5	0	0.0	9	0.4	0	0.0	0	0.0	0	0.0	17	0.4
Ohio	44	3.3	2	1.0	3	3.8	83	3.3	2	1.5	0	0.0	1	1.7	135	3.1
Oklahoma	34	2.6	8	4.1	2	2.5	79	3.1	0	0.0	0	0.0	0	0.0	123	2.8
Oregon	6	0.5	7	3.6	5	6.3	21	0.8	1	0.7	1	4.5	0	0.0	41	0.9
Pennsylvania*	68	5.2	6	3.1	4	5.1	91	3.6	3	2.2	0	0.0	26	43.3	198	4.5
Rhode Island	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
South Carolina	29	2.2	4	2.1	2	2.5	51	2.0	3	2.2	0	0.0	0	0.0	89	2.0
South Dakota	3	0.2	2	1.0	1	1.3	6	0.2	1	0.7	0	0.0	0	0.0	13	0.3
Tennessee	21	1.6	1	0.5	1	1.3	66	2.6	4	2.9	2	9.1	0	0.0	95	2.2
Texas	127	9.7	28	14.5	8	10.1	311	12.2	5	3.7	4	18.2	0	0.0	483	11.1
Utah	11	0.8	1	0.5	1	1.3	16	0.6	6	4.4	0	0.0	0	0.0	35	0.8
Vermont	2	0.2	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	7	0.2
Virginia	29	2.2	4	2.1	0	0.0	49	1.9	2	1.5	0	0.0	0	0.0	84	1.9
Washington	22	1.7	10	5.2	3	3.8	24	0.9	6	4.4	0	0.0	0	0.0	65	1.5
West Virginia	18	1.4	1	0.5	1	1.3	26	1.0	3	2.2	0	0.0	0	0.0	49	1.1
Wisconsin	25	1.9	6	3.1	3	3.8	37	1.5	0	0.0	0	0.0	0	0.0	71	1.6
Wyoming	8	0.6	0	0.0	2	2.5	18	0.7	4	2.9	0	0.0	1	1.7	33	0.8
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

*Truck type in 2008 could not be determined accurately due to missing police reports.

Temporal distributions

Table 2-2
Fatal Truck Involvements by Month and Truck Configuration

Month of accident	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
January	100	7.6	18	9.3	8	10.1	230	9.0	10	7.4	2	9.1	4	6.7	372	8.5
February	116	8.8	8	4.1	6	7.6	245	9.6	19	14.0	2	9.1	6	10.0	402	9.2
March	85	6.5	15	7.8	4	5.1	181	7.1	8	5.9	1	4.5	3	5.0	297	6.8
April	122	9.3	15	7.8	6	7.6	193	7.6	10	7.4	3	13.6	5	8.3	354	8.1
May	109	8.3	17	8.8	5	6.3	199	7.8	14	10.3	1	4.5	5	8.3	350	8.0
June	121	9.2	20	10.4	5	6.3	211	8.3	16	11.8	1	4.5	12	20.0	386	8.9
July	110	8.4	19	9.8	9	11.4	241	9.5	12	8.8	3	13.6	6	10.0	400	9.2
August	112	8.5	15	7.8	7	8.9	197	7.7	12	8.8	1	4.5	4	6.7	348	8.0
September	123	9.4	17	8.8	10	12.7	217	8.5	12	8.8	3	13.6	6	10.0	388	8.9
October	116	8.8	17	8.8	7	8.9	243	9.5	8	5.9	3	13.6	3	5.0	397	9.1
November	100	7.6	15	7.8	3	3.8	175	6.9	3	2.2	1	4.5	3	5.0	300	6.9
December	101	7.7	17	8.8	9	11.4	215	8.4	12	8.8	1	4.5	3	5.0	358	8.2
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 2-3
Fatal Truck Involvements by Day of Week and Truck Configuration

Day of week	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Sunday	74	5.6	16	8.3	10	12.7	171	6.7	5	3.7	4	18.2	3	5.0	283	6.5
Monday	221	16.8	26	13.5	15	19.0	415	16.3	20	14.7	2	9.1	12	20.0	711	16.3
Tuesday	229	17.4	32	16.6	12	15.2	435	17.1	25	18.4	2	9.1	7	11.7	742	17.0
Wednesday	235	17.9	25	13.0	10	12.7	450	17.7	27	19.9	7	31.8	11	18.3	765	17.6
Thursday	227	17.3	37	19.2	9	11.4	439	17.2	22	16.2	1	4.5	16	26.7	751	17.3
Friday	216	16.4	32	16.6	15	19.0	430	16.9	15	11.0	3	13.6	8	13.3	719	16.5
Saturday	113	8.6	25	13.0	8	10.1	207	8.1	22	16.2	3	13.6	3	5.0	381	8.8
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 2-4
Fatal Truck Involvements by Day Type and Truck Configuration

Day type	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Work week	1128	85.8	152	78.8	61	77.2	2169	85.2	109	80.1	15	68.2	54	90.0	3688	84.7
Weekend	187	14.2	41	21.2	18	22.8	378	14.8	27	19.9	7	31.8	6	10.0	664	15.3
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Note: Work week is defined as Monday through Friday, and weekend as Saturday and Sunday.

**Table 2-5
Fatal Truck Involvements by Time of Accident and Truck Configuration**

Time of accident	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Midnight	19	1.4	4	2.1	1	1.3	60	2.4	6	4.4	1	4.5	10	16.7	101	2.3
1:00 AM	20	1.5	1	0.5	2	2.5	71	2.8	3	2.2	0	0.0	0	0.0	97	2.2
2:00 AM	26	2.0	1	0.5	1	1.3	89	3.5	9	6.6	0	0.0	5	8.3	131	3.0
3:00 AM	22	1.7	1	0.5	6	7.6	65	2.6	4	2.9	1	4.5	1	1.7	100	2.3
4:00 AM	26	2.0	1	0.5	4	5.1	79	3.1	1	0.7	0	0.0	0	0.0	111	2.6
5:00 AM	40	3.0	2	1.0	1	1.3	113	4.4	11	8.1	1	4.5	3	5.0	171	3.9
6:00 AM	79	6.0	5	2.6	2	2.5	128	5.0	7	5.1	2	9.1	1	1.7	224	5.1
7:00 AM	89	6.8	15	7.8	2	2.5	119	4.7	12	8.8	0	0.0	6	10.0	243	5.6
8:00 AM	80	6.1	11	5.7	3	3.8	126	4.9	4	2.9	1	4.5	2	3.3	227	5.2
9:00 AM	84	6.4	12	6.2	5	6.3	128	5.0	5	3.7	1	4.5	5	8.3	240	5.5
10:00 AM	1	7.7	15	7.8	1	1.3	123	4.8	8	5.9	1	4.5	1	1.7	250	5.7
11:00 AM	94	7.1	10	5.2	4	5.1	143	5.6	6	4.4	4	18.2	5	8.3	266	6.1
Noon	75	5.7	8	4.1	5	6.3	131	5.1	8	5.9	0	0.0	2	3.3	229	5.3
1:00 PM	1	7.7	15	7.8	6	7.6	152	6.0	6	4.4	1	4.5	2	3.3	283	6.5
2:00 PM	93	7.1	18	9.3	3	3.8	165	6.5	4	2.9	1	4.5	6	10.0	290	6.7
3:00 PM	88	6.7	11	5.7	5	6.3	142	5.6	3	2.2	4	18.2	1	1.7	254	5.8
4:00 PM	63	4.8	15	7.8	8	10.1	122	4.8	3	2.2	0	0.0	5	8.3	216	5.0
5:00 PM	53	4.0	15	7.8	5	6.3	102	4.0	5	3.7	1	4.5	0	0.0	181	4.2
6:00 PM	36	2.7	6	3.1	3	3.8	95	3.7	2	1.5	0	0.0	2	3.3	144	3.3
7:00 PM	27	2.1	6	3.1	4	5.1	79	3.1	2	1.5	1	4.5	2	3.3	121	2.8
8:00 PM	28	2.1	9	4.7	4	5.1	88	3.5	6	4.4	1	4.5	1	1.7	137	3.1
9:00 PM	20	1.5	5	2.6	1	1.3	76	3.0	9	6.6	0	0.0	0	0.0	111	2.6
10:00 PM	19	1.4	3	1.6	1	1.3	61	2.4	7	5.1	1	4.5	0	0.0	92	2.1
11:00 PM	28	2.1	4	2.1	2	2.5	88	3.5	5	3.7	0	0.0	0	0.0	127	2.9
Unknown	4	0.3	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	6	0.1
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 2-6
Fatal Truck Involvements by Time of Accident and Day Type

Time of accident	Work week		Weekend		Total	
	N	%	N	%	N	%
Midnight	76	2.1	25	3.8	101	2.3
1:00 AM	70	1.9	27	4.1	97	2.2
2:00 AM	92	2.5	39	5.9	131	3.0
3:00 AM	72	2.0	28	4.2	100	2.3
4:00 AM	85	2.3	26	3.9	111	2.6
5:00 AM	142	3.9	29	4.4	171	3.9
6:00 AM	200	5.4	24	3.6	224	5.1
7:00 AM	223	6.0	20	3.0	243	5.6
8:00 AM	199	5.4	28	4.2	227	5.2
9:00 AM	218	5.9	22	3.3	240	5.5
10:00 AM	222	6.0	28	4.2	250	5.7
11:00 AM	240	6.5	26	3.9	266	6.1
Noon	198	5.4	31	4.7	229	5.3
1:00 PM	251	6.8	32	4.8	283	6.5
2:00 PM	259	7.0	31	4.7	290	6.7
3:00 PM	223	6.0	31	4.7	254	5.8
4:00 PM	186	5.0	30	4.5	216	5.0
5:00 PM	155	4.2	26	3.9	181	4.2
6:00 PM	120	3.3	24	3.6	144	3.3
7:00 PM	89	2.4	32	4.8	121	2.8
8:00 PM	99	2.7	38	5.7	137	3.1
9:00 PM	94	2.5	17	2.6	111	2.6
10:00 PM	65	1.8	27	4.1	92	2.1
11:00 PM	104	2.8	23	3.5	127	2.9
Unknown	6	0.2	0	0.0	6	0.1
Total	3688	100.0	664	100.0	4352	100.0

Note: Work week is defined as Monday through Friday,
and weekend as Saturday and Sunday.

Environmental distributions

Table 2-7
Fatal Truck Involvements by Land Use and Truck Configuration

Land use	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Urban	543	41.3	69	35.8	30	38.0	804	31.6	50	36.8	10	45.5	33	55.0	1539	35.4
Rural	767	58.3	123	63.7	48	60.8	1731	68.0	86	63.2	12	54.5	27	45.0	2794	64.2
Unknown	5	0.4	1	0.5	1	1.3	12	0.5	0	0.0	0	0.0	0	0.0	19	0.4
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 2-8
Fatal Truck Involvements by Light Condition and Truck Configuration

Light condition	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Daylight	938	71.3	153	79.3	49	62.0	1529	60.0	63	46.3	14	63.6	38	63.3	2784	64.0
Dark	218	16.6	29	15.0	17	21.5	684	26.9	47	34.6	3	13.6	17	28.3	1015	23.3
Dark but lighted	96	7.3	9	4.7	10	12.7	240	9.4	17	12.5	3	13.6	3	5.0	378	8.7
Dawn	52	4.0	2	1.0	2	2.5	60	2.4	5	3.7	1	4.5	2	3.3	124	2.8
Dusk	8	0.6	0	0.0	1	1.3	32	1.3	4	2.9	1	4.5	0	0.0	46	1.1
Unknown	3	0.2	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 2-9
Fatal Truck Involvements by Roadway Surface Condition and Truck Configuration

Roadway surface condition	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Dry	1064	80.9	161	83.4	70	88.6	2047	80.4	109	80.1	22	100.0	48	80.0	3521	80.9
Wet	175	13.3	23	11.9	6	7.6	329	12.9	14	10.3	0	0.0	5	8.3	552	12.7
Snow or slush	40	3.0	4	2.1	1	1.3	72	2.8	2	1.5	0	0.0	4	6.7	123	2.8
Ice/frost	25	1.9	5	2.6	2	2.5	86	3.4	10	7.4	0	0.0	2	3.3	130	3.0
Sand, dirt, mud, gravel	3	0.2	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Water (standing or moving)	0	0.0	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Oil	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Other	2	0.2	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Unknown	6	0.5	0	0.0	0	0.0	5	0.2	1	0.7	0	0.0	1	1.7	13	0.3
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 2-10
Fatal Truck Involvements by Weather Condition and Truck Configuration

Weather condition	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Clear/cloudy (no adverse conditions)	1125	85.6	170	88.1	76	96.2	2127	83.5	114	83.8	22	100.0	51	85.0	3685	84.7
Rain	108	8.2	8	4.1	1	1.3	198	7.8	12	8.8	0	0.0	4	6.7	331	7.6
Sleet (hail)	7	0.5	2	1.0	0	0.0	24	0.9	2	1.5	0	0.0	0	0.0	35	0.8
Snow or blowing snow	40	3.0	6	3.1	1	1.3	97	3.8	6	4.4	0	0.0	3	5.0	153	3.5
Fog/smog/smoke	27	2.1	6	3.1	1	1.3	75	2.9	1	0.7	0	0.0	1	1.7	111	2.6
Severe crosswinds	1	0.1	1	0.5	0	0.0	11	0.4	1	0.7	0	0.0	0	0.0	14	0.3
Blowing sand, soil, or dirt	2	0.2	0	0.0	0	0.0	7	0.3	0	0.0	0	0.0	0	0.0	9	0.2
Other	1	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Unknown	4	0.3	0	0.0	0	0.0	6	0.2	0	0.0	0	0.0	1	1.7	11	0.3
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Roadway distributions

Table 2-11
Fatal Truck Involvements by Roadway Function Class and Truck Configuration

Road function class	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Urban</i>																
Interstate	97	7.4	12	6.2	6	7.6	337	13.2	27	19.9	1	4.5	14	23.3	494	11.4
Freeway/expressway	62	4.7	8	4.1	4	5.1	89	3.5	6	4.4	0	0.0	3	5.0	172	4.0
Other principal artery	156	11.9	14	7.3	6	7.6	211	8.3	12	8.8	6	27.3	7	11.7	412	9.5
Minor artery	104	7.9	17	8.8	6	7.6	88	3.5	2	1.5	2	9.1	4	6.7	223	5.1
Collector	40	3.0	7	3.6	0	0.0	30	1.2	3	2.2	0	0.0	2	3.3	82	1.9
Local street	83	6.3	11	5.7	8	10.1	48	1.9	0	0.0	1	4.5	3	5.0	154	3.5
Unknown urban	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Total urban	543	41.3	69	35.8	30	38.0	804	31.6	50	36.8	10	45.5	33	55.0	1539	35.4
<i>Rural</i>																
Interstate	81	6.2	19	9.8	7	8.9	546	21.4	40	29.4	1	4.5	10	16.7	704	16.2
Other principal artery	203	15.4	38	19.7	20	25.3	562	22.1	19	14.0	5	22.7	7	11.7	854	19.6
Minor artery	172	13.1	33	17.1	11	13.9	302	11.9	15	11.0	2	9.1	3	5.0	538	12.4
Major collector	167	12.7	23	11.9	6	7.6	229	9.0	8	5.9	3	13.6	4	6.7	440	10.1
Minor collector	39	3.0	7	3.6	0	0.0	30	1.2	1	0.7	0	0.0	0	0.0	77	1.8
Local road	101	7.7	3	1.6	4	5.1	59	2.3	3	2.2	1	4.5	3	5.0	174	4.0
Unknown rural	4	0.3	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	7	0.2
Total rural	767	58.3	123	63.7	48	60.8	1731	68.0	86	63.2	12	54.5	27	45.0	2794	64.2
<i>Unknown</i>	5	0.4	1	0.5	1	1.3	12	0.5	0	0.0	0	0.0	0	0.0	19	0.4
Total urban and rural	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 2-12
Fatal Truck Involvements by Route Signing and Truck Configuration

Route signing	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Interstate	175	13.3	31	16.1	13	16.5	869	34.1	67	49.3	2	9.1	24	40.0	1181	27.1
US highway	271	20.6	46	23.8	15	19.0	665	26.1	22	16.2	4	18.2	11	18.3	1034	23.8
State highway	444	33.8	68	35.2	29	36.7	687	27.0	26	19.1	10	45.5	16	26.7	1280	29.4
County road	191	14.5	16	8.3	10	12.7	150	5.9	14	10.3	5	22.7	0	0.0	386	8.9
Township	37	2.8	4	2.1	2	2.5	21	0.8	0	0.0	0	0.0	2	3.3	66	1.5
Municipality	146	11.1	21	10.9	9	11.4	91	3.6	5	3.7	1	4.5	7	11.7	280	6.4
Frontage road	7	0.5	1	0.5	0	0.0	16	0.6	0	0.0	0	0.0	0	0.0	24	0.6
Other	42	3.2	6	3.1	1	1.3	47	1.8	2	1.5	0	0.0	0	0.0	98	2.3
Unknown	2	0.2	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 2-13
Fatal Truck Involvements by Relation to Junction and Truck Configuration

Relation to junction	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Noninterchange</i>																
Nonjunction	849	64.6	121	62.7	51	64.6	1763	69.2	100	73.5	10	45.5	29	48.3	2923	67.2
Intersection	326	24.8	47	24.4	23	29.1	489	19.2	18	13.2	9	40.9	9	15.0	921	21.2
Intersection related	49	3.7	8	4.1	3	3.8	61	2.4	3	2.2	0	0.0	2	3.3	126	2.9
Driveway, alley, etc.	14	1.1	3	1.6	0	0.0	39	1.5	1	0.7	0	0.0	4	6.7	61	1.4
Entrance/exit ramp	5	0.4	2	1.0	0	0.0	10	0.4	1	0.7	0	0.0	0	0.0	18	0.4
Rail grade crossing	5	0.4	1	0.5	0	0.0	9	0.4	1	0.7	0	0.0	0	0.0	16	0.4
In crossover	4	0.3	1	0.5	0	0.0	12	0.5	1	0.7	0	0.0	1	1.7	19	0.4
Driveway access related	21	1.6	2	1.0	1	1.3	39	1.5	2	1.5	3	13.6	1	1.7	69	1.6
Unknown	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
<i>Interchange area</i>																
Intersection	10	0.8	2	1.0	0	0.0	21	0.8	0	0.0	0	0.0	2	3.3	35	0.8
Intersection related	5	0.4	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	10	0.2
Driveway access	1	0.1	1	0.5	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Entrance/exit ramp	13	1.0	1	0.5	0	0.0	28	1.1	0	0.0	0	0.0	0	0.0	42	1.0
Other location	13	1.0	4	2.1	1	1.3	67	2.6	7	5.1	0	0.0	12	20.0	104	2.4
Unknown	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
<i>Unknown area</i>																
Unknown	0	0.0	0	0.0	0	0.0	1	0.0	2	1.5	0	0.0	0	0.0	3	0.1
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 2-14
Fatal Truck Involvements by Number of Travel Lanes and Truck Configuration

Number of travel lanes	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1	17	1.3	2	1.0	0	0.0	31	1.2	0	0.0	0	0.0	0	0.0	50	1.1
2	977	74.3	145	75.1	55	69.6	1810	71.1	88	64.7	17	77.3	36	60.0	3128	71.9
3	110	8.4	18	9.3	7	8.9	241	9.5	22	16.2	1	4.5	14	23.3	413	9.5
4	146	11.1	18	9.3	12	15.2	367	14.4	21	15.4	1	4.5	9	15.0	574	13.2
5	21	1.6	2	1.0	2	2.5	37	1.5	5	3.7	1	4.5	0	0.0	68	1.6
6	22	1.7	4	2.1	1	1.3	31	1.2	0	0.0	2	9.1	0	0.0	60	1.4
7 or more	3	0.2	1	0.5	1	1.3	10	0.4	0	0.0	0	0.0	0	0.0	15	0.3
Unknown	19	1.4	3	1.6	1	1.3	20	0.8	0	0.0	0	0.0	1	1.7	44	1.0
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 2-15
Fatal Truck Involvements by Trafficway Flow and Truck Configuration

Trafficway flow	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Not divided	843	64.1	126	65.3	53	67.1	1123	44.1	38	27.9	13	59.1	22	36.7	2218	51.0
Median - no barrier	249	18.9	43	22.3	14	17.7	834	32.7	47	34.6	3	13.6	19	31.7	1209	27.8
Median with barrier	151	11.5	18	9.3	10	12.7	485	19.0	43	31.6	3	13.6	16	26.7	726	16.7
One way traffic	17	1.3	1	0.5	0	0.0	16	0.6	1	0.7	0	0.0	0	0.0	35	0.8
2-way with left turn lane	26	2.0	3	1.6	1	1.3	47	1.8	5	3.7	3	13.6	2	3.3	87	2.0
Entrance/exit ramp	17	1.3	2	1.0	0	0.0	35	1.4	1	0.7	0	0.0	0	0.0	55	1.3
Unknown	12	0.9	0	0.0	1	1.3	7	0.3	1	0.7	0	0.0	1	1.7	22	0.5
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 2-16
Fatal Truck Involvements by Speed Limit and Truck Configuration

Speed limit	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
No stated limit	5	0.4	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	6	0.1
15	4	0.3	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	5	0.1
20	2	0.2	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	4	0.1
25	41	3.1	5	2.6	1	1.3	23	0.9	2	1.5	1	4.5	4	6.7	77	1.8
30	49	3.7	4	2.1	3	3.8	35	1.4	0	0.0	2	9.1	1	1.7	94	2.2
35	120	9.1	14	7.3	6	7.6	74	2.9	2	1.5	0	0.0	3	5.0	219	5.0
40	72	5.5	5	2.6	4	5.1	54	2.1	2	1.5	1	4.5	4	6.7	142	3.3
45	154	11.7	25	13.0	10	12.7	225	8.8	10	7.4	5	22.7	9	15.0	438	10.1
50	69	5.2	8	4.1	2	2.5	96	3.8	5	3.7	2	9.1	0	0.0	182	4.2
55	429	32.6	66	34.2	28	35.4	775	30.4	35	25.7	7	31.8	14	23.3	1354	31.1
60	68	5.2	10	5.2	3	3.8	178	7.0	10	7.4	1	4.5	0	0.0	270	6.2
65	185	14.1	26	13.5	12	15.2	544	21.4	28	20.6	2	9.1	21	35.0	818	18.8
70	77	5.9	24	12.4	5	6.3	409	16.1	28	20.6	1	4.5	1	1.7	545	12.5
75	10	0.8	6	3.1	2	2.5	91	3.6	14	10.3	0	0.0	1	1.7	124	2.8
80	0	0.0	0	0.0	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	6	0.1
Unknown	30	2.3	0	0.0	3	3.8	33	1.3	0	0.0	0	0.0	2	3.3	68	1.6
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Accident description

Table 2-17
Fatal Truck Involvements by Accident Type and Truck Configuration

Accident type	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Single vehicle</i>																
Ran off road	136	10.3	17	8.8	10	12.7	205	8.0	10	7.4	0	0.0	0	0.0	378	8.7
Hit object in road	145	11.0	11	5.7	10	12.7	182	7.1	21	15.4	1	4.5	2	3.3	372	8.5
<i>Same direction, same trafficway</i>																
Rearend, truck striking	49	3.7	8	4.1	1	1.3	188	7.4	11	8.1	2	9.1	0	0.0	259	6.0
Rearend, truck struck	126	9.6	12	6.2	5	6.3	256	10.1	10	7.4	2	9.1	0	0.0	411	9.4
Sideswipe, in other's lane	15	1.1	1	0.5	0	0.0	23	0.9	1	0.7	0	0.0	0	0.0	40	0.9
Sideswipe, in truck's lane	10	0.8	6	3.1	1	1.3	64	2.5	6	4.4	1	4.5	0	0.0	88	2.0
<i>Opposite direction, same trafficway</i>																
Head-on, in other's lane	36	2.7	2	1.0	3	3.8	27	1.1	2	1.5	0	0.0	0	0.0	70	1.6
Head-on, in truck's lane	162	12.3	24	12.4	8	10.1	271	10.6	14	10.3	0	0.0	1	1.7	480	11.0
Sideswipe, in other's lane	24	1.8	3	1.6	2	2.5	26	1.0	1	0.7	2	9.1	0	0.0	58	1.3
Sideswipe, in truck's lane	94	7.1	21	10.9	11	13.9	266	10.4	11	8.1	4	18.2	0	0.0	407	9.4
<i>Change trafficway, one vehicle turning</i>																
Truck turn across path	60	4.6	12	6.2	1	1.3	102	4.0	5	3.7	4	18.2	0	0.0	184	4.2
Other turn across path	88	6.7	21	10.9	3	3.8	136	5.3	4	2.9	2	9.1	1	1.7	255	5.9
<i>Intersecting paths, both going straight</i>																
Truck into side of other	117	8.9	15	7.8	13	16.5	178	7.0	10	7.4	1	4.5	0	0.0	334	7.7
Other into side of truck	26	2.0	5	2.6	2	2.5	85	3.3	2	1.5	0	0.0	0	0.0	120	2.8
<i>Other accident types</i>																
Truck backed into other	9	0.7	1	0.5	0	0.0	13	0.5	0	0.0	1	4.5	0	0.0	24	0.6
Other backed into truck	1	0.1	0	0.0	0	0.0	1	0.0	1	0.7	0	0.0	0	0.0	3	0.1
Untripped roll	31	2.4	1	0.5	0	0.0	51	2.0	0	0.0	0	0.0	0	0.0	83	1.9
Other	175	13.3	32	16.6	8	10.1	447	17.6	27	19.9	1	4.5	2	3.3	692	15.9
Unknown	11	0.8	1	0.5	1	1.3	26	1.0	0	0.0	1	4.5	54	90.0	94	2.2
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

**Table 2-18
Fatal Truck Involvements by First Harmful Event and Truck Configuration**

First harmful event	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Noncollision event</i>																
Overturn	71	5.4	7	3.6	2	2.5	106	4.2	4	2.9	0	0.0	2	3.3	192	4.4
Immersion	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Fell/jumped from vehicle	8	0.6	2	1.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	15	0.3
Other noncollision	2	0.2	0	0.0	0	0.0	3	0.1	1	0.7	0	0.0	0	0.0	6	0.1
Vehicle occupant struck or run over by own vehicle	4	0.3	0	0.0	1	1.3	0	0.0	0	0.0	0	0.0	0	0.0	5	0.1
Jackknife	1	0.1	2	1.0	0	0.0	14	0.5	1	0.7	0	0.0	0	0.0	18	0.4
Cargo/equipment loss or shift	2	0.2	1	0.5	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	9	0.2
<i>Collision with nonfixed object</i>																
Pedestrian	100	7.6	8	4.1	8	10.1	130	5.1	16	11.8	1	4.5	11	18.3	274	6.3
Pedalcycle	34	2.6	3	1.6	2	2.5	33	1.3	3	2.2	0	0.0	0	0.0	75	1.7
Railway train	5	0.4	0	0.0	0	0.0	8	0.3	1	0.7	0	0.0	0	0.0	14	0.3
Animal	3	0.2	0	0.0	0	0.0	6	0.2	1	0.7	0	0.0	0	0.0	10	0.2
Motor vehicle in transport	920	70.0	152	78.8	56	70.9	1916	75.3	85	62.5	19	86.4	42	70.0	3190	73.3
Vehicle in transport - other roadway	15	1.1	0	0.0	0	0.0	66	2.6	6	4.4	0	0.0	0	0.0	87	2.0
Parked motor vehicle	14	1.1	1	0.5	0	0.0	22	0.9	2	1.5	1	4.5	0	0.0	40	0.9
Other type - nonmotorist	4	0.3	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	6	0.1
Other object - not fixed	4	0.3	1	0.5	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	13	0.3
Construction/maintenance vehicle	1	0.1	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	1	1.7	5	0.1
Ridden animal/conveyance	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Struck by falling/shifting cargo	4	0.3	0	0.0	0	0.0	5	0.2	3	2.2	1	4.5	0	0.0	13	0.3
Motor vehicle in motion outside the trafficway	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
<i>Collision with fixed object</i>																
Boulder	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Building	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Impact attenuator	1	0.1	0	0.0	0	0.0	4	0.2	0	0.0	0	0.0	0	0.0	5	0.1
Bridge pier or abutment	1	0.1	1	0.5	1	1.3	4	0.2	0	0.0	0	0.0	0	0.0	7	0.2
Bridge parapet end	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Bridge rail	2	0.2	0	0.0	1	1.3	4	0.2	0	0.0	0	0.0	0	0.0	7	0.2
Guardrail	32	2.4	4	2.1	3	3.8	55	2.2	6	4.4	0	0.0	1	1.7	101	2.3
Concrete traffic barrier	3	0.2	0	0.0	0	0.0	23	0.9	0	0.0	0	0.0	1	1.7	27	0.6
Other traffic barrier type	0	0.0	0	0.0	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	6	0.1
Highway/traffic sign post	6	0.5	1	0.5	0	0.0	10	0.4	0	0.0	0	0.0	0	0.0	17	0.4
Overhead sign support	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Luminaire/light support	2	0.2	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Utility pole	5	0.4	0	0.0	0	0.0	2	0.1	1	0.7	0	0.0	0	0.0	8	0.2
Other post, pole or supports	3	0.2	0	0.0	0	0.0	9	0.4	0	0.0	0	0.0	0	0.0	12	0.3
Culvert	7	0.5	0	0.0	0	0.0	1	0.0	2	1.5	0	0.0	0	0.0	10	0.2
Curb	7	0.5	1	0.5	0	0.0	4	0.2	0	0.0	0	0.0	0	0.0	12	0.3
Ditch	9	0.7	0	0.0	1	1.3	12	0.5	0	0.0	0	0.0	0	0.0	22	0.5
Embankment - earth	3	0.2	0	0.0	1	1.3	11	0.4	1	0.7	0	0.0	0	0.0	16	0.4
Embankment - rock, stone, etc.	1	0.1	0	0.0	0	0.0	2	0.1	1	0.7	0	0.0	0	0.0	4	0.1
Embankment - type unknown	10	0.8	1	0.5	0	0.0	6	0.2	2	1.5	0	0.0	0	0.0	19	0.4
Fence	1	0.1	0	0.0	1	1.3	4	0.2	0	0.0	0	0.0	1	1.7	7	0.2
Wall	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Fire hydrant	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Tree	17	1.3	4	2.1	2	2.5	34	1.3	0	0.0	0	0.0	1	1.7	58	1.3
Other fixed object	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Collision with snow bank	0	0.0	1	0.5	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Bridge overhead structure	2	0.2	1	0.5	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	4	0.1
Guardrail end	2	0.2	1	0.5	0	0.0	9	0.4	0	0.0	0	0.0	0	0.0	12	0.3
Mail box	3	0.2	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1
Cable barrier	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 2-19
Fatal Truck Involvements by Vehicle Role in Accident and Truck Configuration

Vehicle role	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Non-collision	49	3.7	3	1.6	1	1.3	55	2.2	1	0.7	0	0.0	1	1.7	110	2.5
Striking	693	52.7	96	49.7	44	55.7	1228	48.2	73	53.7	8	36.4	35	58.3	2177	50.0
Struck	526	40.0	87	45.1	30	38.0	1160	45.5	56	41.2	14	63.6	21	35.0	1894	43.5
Both	47	3.6	7	3.6	4	5.1	98	3.8	6	4.4	0	0.0	3	5.0	165	3.8
Unknown	0	0.0	0	0.0	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	6	0.1
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 2-20
Fatal Truck Involvements by Manner of Collision and Truck Configuration

Manner of collision	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Not a collision with a motor vehicle	360	27.4	40	20.7	23	29.1	535	21.0	40	29.4	1	4.5	17	28.3	1016	23.3
Front-to-rear (includes rear-end)	223	17.0	28	14.5	8	10.1	564	22.1	27	19.9	5	22.7	17	28.3	872	20.0
Front-to-front (includes head-on)	239	18.2	31	16.1	13	16.5	380	14.9	21	15.4	0	0.0	5	8.3	689	15.8
Angle - front-to-side, same direction	34	2.6	6	3.1	0	0.0	85	3.3	4	2.9	3	13.6	1	1.7	133	3.1
Angle - front-to-side, opposite direction	109	8.3	22	11.4	5	6.3	233	9.1	9	6.6	5	22.7	4	6.7	387	8.9
Angle - front-to-side, right angle (including broadside)	272	20.7	48	24.9	24	30.4	508	19.9	23	16.9	6	27.3	11	18.3	892	20.5
Angle - front-to-side/angle - direction not specified	4	0.3	3	1.6	1	1.3	16	0.6	0	0.0	0	0.0	0	0.0	24	0.6
Sideswipe - same direction	27	2.1	9	4.7	0	0.0	91	3.6	5	3.7	0	0.0	3	5.0	135	3.1
Sideswipe - opposite direction	37	2.8	5	2.6	4	5.1	92	3.6	3	2.2	0	0.0	2	3.3	143	3.3
Rear-to-side	5	0.4	0	0.0	1	1.3	7	0.3	0	0.0	0	0.0	0	0.0	13	0.3
Other (end-swipes and others)	5	0.4	1	0.5	0	0.0	26	1.0	4	2.9	2	9.1	0	0.0	38	0.9
Unknown	0	0.0	0	0.0	0	0.0	10	0.4	0	0.0	0	0.0	0	0.0	10	0.2
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 2-21
Fatal Truck Involvements by Rollover Status and Truck Configuration

Truck rollover status	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
No rollover	1096	83.3	162	83.9	66	83.5	2237	87.8	119	87.5	22	100.0	56	93.3	3758	86.4
First event	69	5.2	5	2.6	2	2.5	86	3.4	2	1.5	0	0.0	1	1.7	165	3.8
Subsequent event	150	11.4	26	13.5	11	13.9	224	8.8	15	11.0	0	0.0	3	5.0	429	9.9
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 2-22
Fatal Truck Involvements by Jackknife Status and Truck Configuration

Truck jackknife status	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
None	1315	100.0	174	90.2	79	100.0	2388	93.8	122	89.7	20	90.9	59	98.3	4157	95.5
First event	0	0.0	5	2.6	0	0.0	40	1.6	3	2.2	1	4.5	1	1.7	50	1.1
Subsequent event	0	0.0	14	7.3	0	0.0	119	4.7	11	8.1	1	4.5	0	0.0	145	3.3
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 2-23
Fatal Truck Involvements by Fire Occurrence and Truck Configuration

Truck fire occurrence	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
No fire	1279	97.3	185	95.9	75	94.9	2311	90.7	124	91.2	20	90.9	59	98.3	4053	93.1
Fire occurred in this vehicle during accident	33	2.5	8	4.1	4	5.1	224	8.8	10	7.4	2	9.1	1	1.7	282	6.5
Fire occurred in this vehicle and initiated fire/explosion in another vehicle	3	0.2	0	0.0	0	0.0	12	0.5	2	1.5	0	0.0	0	0.0	17	0.4
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 2-24
Fatal Truck Involvements by Cargo Spillage and Truck Configuration

Truck cargo spillage	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
None	1088	82.7	145	75.1	10	12.7	2090	82.1	109	80.1	16	72.7	2	3.3	3460	79.5
Nonhazardous	174	13.2	42	21.8	3	3.8	338	13.3	20	14.7	5	22.7	0	0.0	582	13.4
Hazardous	2	0.2	2	1.0	0	0.0	36	1.4	4	2.9	0	0.0	0	0.0	44	1.0
Unknown	51	3.9	4	2.1	66	83.5	83	3.3	3	2.2	1	4.5	58	96.7	266	6.1
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Vehicle

This section provides statistics that describe the physical configuration of trucks involved in a fatal accident in 2008. The tables cover truck configuration, cargo body and cargo type, cab style, truck model year, rollover occurrence, presence of collision avoidance systems, hazardous materials, and the type of carrier that operated the truck. Of the 4,352 trucks involved in a fatal accident in 2008, there were 2,547 tractor-semitrailers, 1,315 straight trucks with no trailer, 193 straight trucks pulling a trailer, 79 bobtail tractors, and 136 tractors pulling two trailers.

- Straight trucks with no trailer represented 30.2% of all trucks involved in a fatal accident.
- Tractor-semitrailers accounted for 58.5% of the trucks.
- Over half of the tractor-semitrailers pulled a van trailer - either a dry box van or a refrigerated van.
- 19.5% of the straight trucks had dump bodies. The next most common straight truck cargo body was a van body, with 17.5%.
- 30.7% of the trucks were empty, 20.1% were carrying general freight, and 13.3% were carrying solids in bulk (gravel, soil, etc.) at the time of the accident.
- 72.9% of the trucks involved in a fatal accident were Class 8, the heaviest Gross Vehicle Weight Rating (GVWR) class.
- 47.5% of the trucks were operated by interstate for-hire carriers, 16.0% by interstate private carriers, and 13.1% by intrastate private carriers.
- 36.0% of the trucks were on local trips (within 50 miles of base) when involved in the fatal accident.
- 39.9% of tractor-semitrailers and 41.9% of tractors with two trailers (doubles) had a speed limiter installed.
- 58 tractor-semitrailers and 15 straight trucks involved in a fatal accident were carrying flammable liquids at the time of the crash.
- 9.5% of tractor-semitrailers with a tank body style rolled over as the first event in the fatal crash, and 15.5% rolled as a subsequent event.

**Table 3-1
Fatal Truck Involvements by Truck Configuration**

Configuration	N	%
<i>Straight trucks</i>		
Straight truck only	1315	30.2
<i>Straight truck, 1 trailer</i>		
Straight + full trailer	38	0.9
Straight + other	104	2.4
Straight + gooseneck hitch + other	50	1.1
Straight + A-dolly + semitrailer	1	0.0
<i>Subtotal</i>	193	4.4
<i>Other straight combinations</i>		
Wrecker + tow	6	0.1
Wrecker + tow + tow + tow	1	0.0
Straight, unknown if pulling trailer	1	0.0
<i>Subtotal</i>	8	0.2
<i>Total straight trucks</i>	1516	34.8
<i>Tractor combinations</i>		
<i>Tractor, no trailers</i>		
Bobtail tractor	68	1.6
Tractor carrying cargo	11	0.3
<i>Subtotal</i>	79	1.8
<i>Tractor, 1 trailer</i>		
Tractor and semitrailer	2547	58.5
Tractor + other (nonsemitrailer)	8	0.2
<i>Subtotal</i>	2555	58.7
<i>Tractor, 2 trailers</i>		
Double with A dolly	89	2.0
Double, B train	2	0.0
Double with unknown dolly	4	0.1
Tractor + semitrailer + full trailer	38	0.9
Tractor + semitrailer + unknown	3	0.1
<i>Subtotal</i>	136	3.1
<i>Tractor, 3 trailers</i>		
Triple with A dollies	1	0.0
<i>Subtotal</i>	1	0.0
<i>Other tractor combinations</i>		
Tractor + jeep + semitrailer + other	1	0.0
Tractor + semitrailer + jeep	1	0.0
Tractor + saddle mount tractor	2	0.0
Tractor + 3 saddle mount tractors	1	0.0
<i>Subtotal</i>	5	0.1
<i>Total tractors</i>	2776	63.8
<i>Unknown</i>	60	1.4
Grand total	4352	100.0

Table 3-2
Fatal Truck Involvements by Cargo Body Style and Truck Configuration

Cargo body style	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Tractor/no trailer	0	0.0	0	0.0	79	100.0	0	0.0	0	0.0	0	0.0	0	0.0	79	1.8
Van	230	17.5	10	5.2	0	0.0	1022	40.1	81	59.6	0	0.0	0	0.0	1343	30.9
Open top van	2	0.2	0	0.0	0	0.0	29	1.1	1	0.7	0	0.0	0	0.0	32	0.7
Refrigerated van	48	3.7	0	0.0	0	0.0	335	13.2	3	2.2	1	4.5	0	0.0	387	8.9
Livestock carrier	0	0.0	0	0.0	0	0.0	26	1.0	0	0.0	0	0.0	0	0.0	26	0.6
Flatbed	83	6.3	30	15.5	0	0.0	323	12.7	11	8.1	3	13.6	0	0.0	450	10.3
Lowboy	0	0.0	0	0.0	0	0.0	44	1.7	0	0.0	1	4.5	0	0.0	45	1.0
Flatbed with equipment	20	1.5	5	2.6	0	0.0	4	0.2	2	1.5	0	0.0	0	0.0	31	0.7
Flatbed with sides	22	1.7	1	0.5	0	0.0	15	0.6	0	0.0	0	0.0	0	0.0	38	0.9
Pole/logging	4	0.3	5	2.6	0	0.0	96	3.8	0	0.0	0	0.0	0	0.0	105	2.4
Tank: liquid/gaseous	60	4.6	8	4.1	0	0.0	256	10.1	6	4.4	0	0.0	0	0.0	330	7.6
Tank: dry bulk	1	0.1	0	0.0	0	0.0	48	1.9	3	2.2	0	0.0	0	0.0	52	1.2
Auto carrier	0	0.0	9	4.7	0	0.0	16	0.6	0	0.0	0	0.0	0	0.0	25	0.6
Dump	257	19.5	46	23.8	0	0.0	197	7.7	5	3.7	0	0.0	0	0.0	505	11.6
Hopper bottom	0	0.0	0	0.0	0	0.0	81	3.2	19	14.0	0	0.0	0	0.0	100	2.3
Garbage/refuse	117	8.9	2	1.0	0	0.0	9	0.4	0	0.0	0	0.0	0	0.0	128	2.9
Concrete mixer	49	3.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	49	1.1
Pickup	178	13.5	65	33.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	243	5.6
Other	222	16.9	9	4.7	0	0.0	25	1.0	5	3.7	15	68.2	0	0.0	276	6.3
Unknown	22	1.7	3	1.6	0	0.0	21	0.8	0	0.0	2	9.1	60	100.0	108	2.5
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 3-3
Fatal Truck Involvements by Type of Cargo and Truck Configuration

Type of cargo	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Empty/bobtail	466	35.4	95	49.2	67	84.8	677	26.6	29	21.3	3	13.6	0	0.0	1337	30.7
General freight	123	9.4	1	0.5	0	0.0	686	26.9	66	48.5	0	0.0	0	0.0	876	20.1
Household goods	26	2.0	4	2.1	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	38	0.9
Building materials	14	1.1	4	2.1	0	0.0	42	1.6	0	0.0	0	0.0	0	0.0	60	1.4
Metal (coils, sheets)	6	0.5	0	0.0	0	0.0	70	2.7	0	0.0	0	0.0	0	0.0	76	1.7
Heavy machinery	11	0.8	2	1.0	0	0.0	52	2.0	0	0.0	2	9.1	0	0.0	67	1.5
Large objects	12	0.9	2	1.0	0	0.0	38	1.5	1	0.7	3	13.6	0	0.0	56	1.3
Motor vehicles	15	1.1	5	2.6	0	0.0	11	0.4	0	0.0	0	0.0	0	0.0	31	0.7
Piggyback/towaway	1	0.1	0	0.0	11	13.9	1	0.0	0	0.0	6	27.3	0	0.0	19	0.4
Gases in bulk	5	0.4	0	0.0	0	0.0	13	0.5	2	1.5	0	0.0	0	0.0	20	0.5
Solids in bulk	287	21.8	19	9.8	0	0.0	252	9.9	21	15.4	0	0.0	0	0.0	579	13.3
Liquids in bulk	38	2.9	6	3.1	0	0.0	139	5.5	1	0.7	0	0.0	0	0.0	184	4.2
Explosives	2	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Logs/poles/lumber	12	0.9	2	1.0	0	0.0	98	3.8	0	0.0	0	0.0	0	0.0	112	2.6
Refrigerated foods	35	2.7	0	0.0	0	0.0	223	8.8	3	2.2	1	4.5	0	0.0	262	6.0
Mobile home	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	9.1	0	0.0	2	0.0
Farm products	7	0.5	4	2.1	0	0.0	27	1.1	6	4.4	0	0.0	0	0.0	44	1.0
Live animals	1	0.1	0	0.0	0	0.0	19	0.7	0	0.0	0	0.0	0	0.0	20	0.5
Other	154	11.7	23	11.9	0	0.0	6	0.2	0	0.0	1	4.5	0	0.0	184	4.2
Not for cargo	13	1.0	1	0.5	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	16	0.4
Cargo, unknown type	3	0.2	0	0.0	0	0.0	37	1.5	1	0.7	0	0.0	0	0.0	41	0.9
Saddlemount tractor	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	13.6	0	0.0	3	0.1
Unknown	84	6.4	25	13.0	1	1.3	146	5.7	6	4.4	1	4.5	60	100.0	323	7.4
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

**Table 3-4
Fatal Truck Involvements by Cab Style and Truck Configuration**

Cab style	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Conventional	1144	87.0	188	97.4	76	96.2	2512	98.6	134	98.5	22	100.0	2	3.3	4078	93.7
Cabover or cab-forward	170	12.9	5	2.6	3	3.8	22	0.9	2	1.5	0	0.0	2	3.3	204	4.7
Unknown	1	0.1	0	0.0	0	0.0	13	0.5	0	0.0	0	0.0	56	93.3	70	1.6
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

**Table 3-5
Fatal Truck Involvements by Cab Style and Power Unit Model Year**

Power unit model year	Conventional		Cabover		Unknown		Total	
	N	%	N	%	N	%	N	%
1966	1	0.0	0	0.0	0	0.0	1	0.0
1968	1	0.0	0	0.0	0	0.0	1	0.0
1970	2	0.0	0	0.0	0	0.0	2	0.0
1971	2	0.0	0	0.0	0	0.0	2	0.0
1972	0	0.0	1	0.5	0	0.0	1	0.0
1973	2	0.0	0	0.0	0	0.0	2	0.0
1974	2	0.0	0	0.0	0	0.0	2	0.0
1975	1	0.0	0	0.0	0	0.0	1	0.0
1976	2	0.0	1	0.5	0	0.0	3	0.1
1977	2	0.0	1	0.5	0	0.0	3	0.1
1978	6	0.1	0	0.0	0	0.0	6	0.1
1979	9	0.2	0	0.0	0	0.0	9	0.2
1980	2	0.0	1	0.5	0	0.0	3	0.1
1981	4	0.1	0	0.0	0	0.0	4	0.1
1982	3	0.1	0	0.0	0	0.0	3	0.1
1983	6	0.1	0	0.0	0	0.0	6	0.1
1984	8	0.2	3	1.5	0	0.0	11	0.3
1985	12	0.3	2	1.0	0	0.0	14	0.3
1986	16	0.4	1	0.5	0	0.0	17	0.4
1987	16	0.4	3	1.5	0	0.0	19	0.4
1988	36	0.9	3	1.5	0	0.0	39	0.9
1989	27	0.7	3	1.5	0	0.0	30	0.7
1990	33	0.8	3	1.5	1	1.4	37	0.9
1991	41	1.0	2	1.0	0	0.0	43	1.0
1992	41	1.0	0	0.0	0	0.0	41	0.9
1993	68	1.7	12	5.9	0	0.0	80	1.8
1994	72	1.8	4	2.0	0	0.0	76	1.7
1995	109	2.7	5	2.5	0	0.0	114	2.6
1996	125	3.1	5	2.5	0	0.0	130	3.0
1997	127	3.1	9	4.4	0	0.0	136	3.1
1998	165	4.0	10	4.9	0	0.0	175	4.0
1999	276	6.8	14	6.9	0	0.0	290	6.7
2000	331	8.1	13	6.4	0	0.0	344	7.9
2001	241	5.9	10	4.9	0	0.0	251	5.8
2002	172	4.2	15	7.4	0	0.0	187	4.3
2003	235	5.8	10	4.9	1	1.4	246	5.7
2004	246	6.0	13	6.4	0	0.0	259	6.0
2005	392	9.6	7	3.4	0	0.0	399	9.2
2006	445	10.9	25	12.3	0	0.0	470	10.8
2007	562	13.8	22	10.8	0	0.0	584	13.4
2008	173	4.2	4	2.0	0	0.0	177	4.1
2009	60	1.5	2	1.0	0	0.0	62	1.4
Unknown	4	0.1	0	0.0	68	97.1	72	1.7
Total	4078	100.0	204	100.0	70	100.0	4352	100.0

Figure 3-1
Fatal Truck Involvements by Cab Style and Year

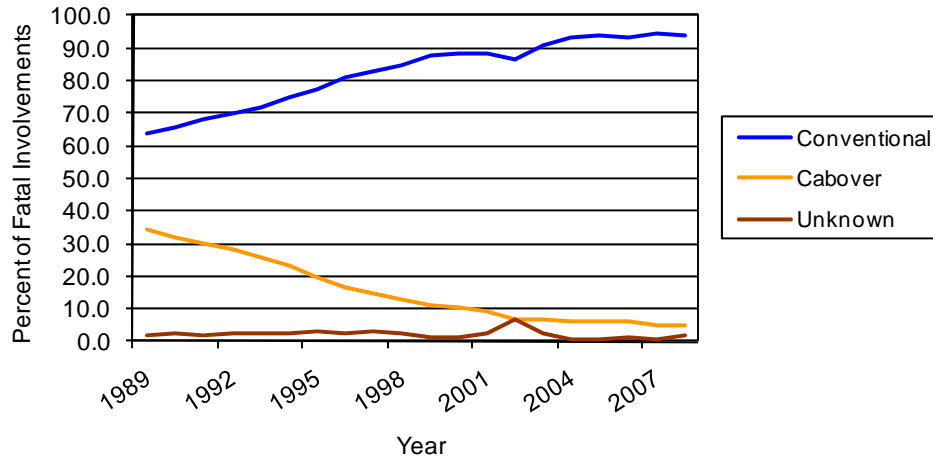


Figure 3-2
Fatal Truck Involvements by Power Unit Type and Model Year

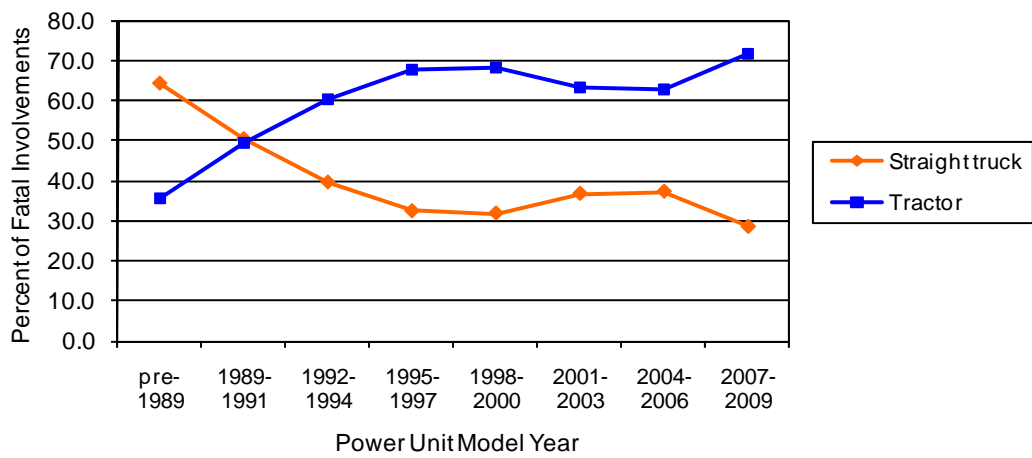


Table 3-6
Fatal Truck Involvements by Power Unit Model Year and Truck Configuration

Power unit model year	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1966	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
1968	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
1970	2	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
1971	2	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
1972	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
1973	2	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
1974	2	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
1975	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
1976	3	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
1977	2	0.2	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
1978	5	0.4	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	6	0.1
1979	6	0.5	1	0.5	0	0.0	1	0.0	0	0.0	1	4.5	0	0.0	9	0.2
1980	2	0.2	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
1981	1	0.1	1	0.5	0	0.0	1	0.0	0	0.0	1	4.5	0	0.0	4	0.1
1982	0	0.0	1	0.5	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
1983	3	0.2	1	0.5	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	6	0.1
1984	6	0.5	0	0.0	0	0.0	3	0.1	1	0.7	1	4.5	0	0.0	11	0.3
1985	9	0.7	0	0.0	0	0.0	3	0.1	1	0.7	1	4.5	0	0.0	14	0.3
1986	7	0.5	2	1.0	1	1.3	6	0.2	1	0.7	0	0.0	0	0.0	17	0.4
1987	6	0.5	2	1.0	1	1.3	8	0.3	1	0.7	1	4.5	0	0.0	19	0.4
1988	20	1.5	4	2.1	2	2.5	12	0.5	1	0.7	0	0.0	0	0.0	39	0.9
1989	16	1.2	1	0.5	1	1.3	12	0.5	0	0.0	0	0.0	0	0.0	30	0.7
1990	17	1.3	0	0.0	1	1.3	19	0.7	0	0.0	0	0.0	0	0.0	37	0.9
1991	18	1.4	3	1.6	2	2.5	12	0.5	6	4.4	1	4.5	1	1.7	43	1.0
1992	14	1.1	4	2.1	3	3.8	19	0.7	1	0.7	0	0.0	0	0.0	41	0.9
1993	31	2.4	2	1.0	2	2.5	42	1.6	3	2.2	0	0.0	0	0.0	80	1.8
1994	25	1.9	1	0.5	2	2.5	45	1.8	1	0.7	2	9.1	0	0.0	76	1.7
1995	30	2.3	5	2.6	5	6.3	72	2.8	2	1.5	0	0.0	0	0.0	114	2.6
1996	39	3.0	5	2.6	2	2.5	78	3.1	3	2.2	3	13.6	0	0.0	130	3.0
1997	38	2.9	6	3.1	3	3.8	87	3.4	1	0.7	1	4.5	0	0.0	136	3.1
1998	55	4.2	4	2.1	8	10.1	102	4.0	5	3.7	1	4.5	0	0.0	175	4.0
1999	86	6.5	14	7.3	8	10.1	175	6.9	3	2.2	4	18.2	0	0.0	290	6.7
2000	78	5.9	17	8.8	4	5.1	233	9.1	11	8.1	0	0.0	1	1.7	344	7.9
2001	73	5.6	13	6.7	5	6.3	152	6.0	8	5.9	0	0.0	0	0.0	251	5.8
2002	68	5.2	4	2.1	0	0.0	111	4.4	3	2.2	1	4.5	0	0.0	187	4.3
2003	72	5.5	20	10.4	8	10.1	136	5.3	9	6.6	0	0.0	1	1.7	246	5.7
2004	110	8.4	12	6.2	1	1.3	130	5.1	5	3.7	0	0.0	1	1.7	259	6.0
2005	106	8.1	14	7.3	2	2.5	260	10.2	16	11.8	1	4.5	0	0.0	399	9.2
2006	155	11.8	22	11.4	10	12.7	260	10.2	23	16.9	0	0.0	0	0.0	470	10.8
2007	132	10.0	21	10.9	6	7.6	399	15.7	26	19.1	0	0.0	0	0.0	584	13.4
2008	60	4.6	12	6.2	2	2.5	99	3.9	4	2.9	0	0.0	0	0.0	177	4.1
2009	8	0.6	1	0.5	0	0.0	49	1.9	1	0.7	3	13.6	0	0.0	62	1.4
Unknown	2	0.2	0	0.0	0	0.0	14	0.5	0	0.0	0	0.0	56	93.3	72	1.7
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

**Table 3-7
Fatal Truck Involvements by Gross Vehicle Weight Rating and Truck Configuration**

Gross vehicle weight rating	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Class 3: 10,001-14,000	285	21.7	82	42.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	367	8.4
Class 4: 14,001-16,000	96	7.3	10	5.2	0	0.0	0	0.0	0	0.0	4	18.2	0	0.0	110	2.5
Class 5: 16,001-19,500	79	6.0	11	5.7	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	91	2.1
Class 6: 19,501-26,000	196	14.9	13	6.7	1	1.3	2	0.1	0	0.0	0	0.0	0	0.0	212	4.9
Class 7: 26,001-33,000	147	11.2	15	7.8	3	3.8	88	3.5	51	37.5	4	18.2	0	0.0	308	7.1
Class 8: 33,001 or more	493	37.5	62	32.1	75	94.9	2444	96.0	83	61.0	14	63.6	3	5.0	3174	72.9
Unknown	19	1.4	0	0.0	0	0.0	13	0.5	1	0.7	0	0.0	57	95.0	90	2.1
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

**Table 3-8
Fatal Truck Involvements by Gross Combination Weight Rating and Truck Configuration**

Gross combination weight rating	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
10,000-26,000 lbs	665	50.6	116	60.1	1	1.3	2	0.1	1	0.7	4	18.2	0	0.0	789	18.1
Over 26,000 lbs	639	48.6	77	39.9	78	98.7	2532	99.4	135	99.3	18	81.8	3	5.0	3482	80.0
Unknown	11	0.8	0	0.0	0	0.0	13	0.5	0	0.0	0	0.0	57	95.0	81	1.9
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

**Table 3-9
Fatal Truck Involvements by Carrier Type and Truck Configuration**

Carrier type	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Interstate private	314	23.9	39	20.2	16	20.3	319	12.5	5	3.7	5	22.7	0	0.0	698	16.0
Interstate for-hire	124	9.4	26	13.5	41	51.9	1762	69.2	104	76.5	9	40.9	2	3.3	2068	47.5
Intrastate private	365	27.8	53	27.5	4	5.1	143	5.6	5	3.7	2	9.1	0	0.0	572	13.1
Intrastate for-hire	151	11.5	14	7.3	14	17.7	171	6.7	21	15.4	5	22.7	0	0.0	376	8.6
Personal use only	128	9.7	31	16.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	159	3.7
Government owned	81	6.2	5	2.6	1	1.3	13	0.5	0	0.0	0	0.0	0	0.0	100	2.3
Daily rental	23	1.7	4	2.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	27	0.6
Unknown	129	9.8	21	10.9	3	3.8	139	5.5	1	0.7	1	4.5	58	96.7	352	8.1
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

**Table 3-10
Fatal Truck Involvements by Trip Type and Truck Configuration**

Trip type	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Local	826	62.8	106	54.9	34	43.0	559	21.9	27	19.9	13	59.1	0	0.0	1565	36.0
51-100 miles	129	9.8	19	9.8	13	16.5	312	12.2	14	10.3	0	0.0	0	0.0	487	11.2
101-150	39	3.0	3	1.6	2	2.5	158	6.2	9	6.6	0	0.0	0	0.0	211	4.8
151-200	22	1.7	2	1.0	1	1.3	153	6.0	11	8.1	0	0.0	0	0.0	189	4.3
201-500	23	1.7	8	4.1	9	11.4	421	16.5	41	30.1	3	13.6	1	1.7	506	11.6
Over 500	14	1.1	7	3.6	6	7.6	502	19.7	13	9.6	3	13.6	0	0.0	545	12.5
Unknown over-the-road distance	5	0.4	3	1.6	0	0.0	107	4.2	6	4.4	0	0.0	0	0.0	121	2.8
Unknown	257	19.5	45	23.3	14	17.7	335	13.2	15	11.0	3	13.6	59	98.3	728	16.7
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 3-11
Fatal Truck Involvements by Presence of Advanced Safety and Security Systems and Truck Configuration

Advanced safety and security systems present	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
None/unknown	1043	79.3	157	81.3	47	59.5	1433	56.3	70	51.5	17	77.3	60	100.0	2827	65.0
warning	1	0.1	0	0.0	1	1.3	26	1.0	3	2.2	0	0.0	0	0.0	31	0.7
Side/object detection	0	0.0	0	0.0	1	1.3	32	1.3	1	0.7	0	0.0	0	0.0	34	0.8
Lane departure warning	0	0.0	0	0.0	1	1.3	25	1.0	7	5.1	0	0.0	0	0.0	33	0.8
Rollover warning	0	0.0	0	0.0	2	2.5	30	1.2	0	0.0	0	0.0	0	0.0	32	0.7
Electronic stability control	8	0.6	3	1.6	2	2.5	80	3.1	3	2.2	0	0.0	0	0.0	96	2.2
Power unit tracking	57	4.3	7	3.6	11	13.9	454	17.8	11	8.1	1	4.5	0	0.0	541	12.4
Trailer tracking	0	0.0	1	0.5	0	0.0	100	3.9	1	0.7	0	0.0	0	0.0	102	2.3
Speed limiter	239	18.2	31	16.1	31	39.2	1015	39.9	57	41.9	5	22.7	0	0.0	1378	31.7
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Note: Since more than one system can be recorded per involvement, percents are calculated based on total involvements, not total devices.

Table 3-12
Fatal Truck Involvements by Presence of Hazardous Materials Placard and Truck Configuration

Hazardous materials placard	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Yes	26	2.0	4	2.1	0	0.0	99	3.9	9	6.6	0	0.0	0	0.0	138	3.2
No	1249	95.0	188	97.4	13	16.5	2406	94.5	127	93.4	22	100.0	2	3.3	4007	92.1
Unknown	40	3.0	1	0.5	66	83.5	42	1.6	0	0.0	0	0.0	58	96.7	207	4.8
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 3-13
Fatal Truck Involvements by Presence of Hazardous Materials Class and Truck Configuration

Hazardous materials class	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Explosives	2	0.2	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Compressed gases	8	0.6	0	0.0	0	0.0	16	0.6	3	2.2	0	0.0	0	0.0	27	0.6
Flammable liquids	15	1.1	4	2.1	0	0.0	58	2.3	1	0.7	0	0.0	0	0.0	78	1.8
Flammable solids	0	0.0	0	0.0	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	1	0.0
Oxidizing substances	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Poisonous substances	0	0.0	0	0.0	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	1	0.0
Corrosive liquids	0	0.0	0	0.0	0	0.0	13	0.5	2	1.5	0	0.0	0	0.0	15	0.3
Miscellaneous hazardous substances	1	0.1	0	0.0	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	9	0.2
Not applicable/not carrying hazardous materials	1249	95.0	188	97.4	13	16.5	2406	94.5	127	93.4	22	100.0	2	3.3	4007	92.1
Unknown	40	3.0	1	0.5	66	83.5	43	1.7	1	0.7	0	0.0	58	96.7	209	4.8
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 3-14
Fatal Truck Involvements by Rollover Status and Cargo Body Style – STRAIGHT TRUCKS ONLY

Truck rollover status	Van		Flatbed		Tank		Dump		Refuse		Concrete Mixer		Pickup		Other		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
No rollover	250	89.3	109	87.2	42	68.9	208	80.9	105	89.7	38	77.6	140	78.7	186	82.3	18	81.8	1096	83.3
First event	8	2.9	7	5.6	8	13.1	15	5.8	4	3.4	7	14.3	8	4.5	9	4.0	3	13.6	69	5.2
Subsequent event	22	7.9	9	7.2	11	18.0	34	13.2	8	6.8	4	8.2	30	16.9	31	13.7	1	4.5	150	11.4
Total	280	100.0	125	100.0	61	100.0	257	100.0	117	100.0	49	100.0	178	100.0	226	100.0	22	100.0	1315	100.0

Table 3-15
Fatal Truck Involvements by Rollover Status and Cargo Body Style – STRAIGHT/ 1 TRAILER

Truck rollover status	Van		Flatbed		Tank		Dump		Refuse		Pickup		Other		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
No rollover	6	60.0	32	88.9	6	75.0	39	84.8	2	100.0	57	87.7	17	73.9	3	100.0	162	83.9
First event	0	0.0	2	5.6	1	12.5	1	2.2	0	0.0	1	1.5	0	0.0	0	0.0	5	2.6
Subsequent event	4	40.0	2	5.6	1	12.5	6	13.0	0	0.0	7	10.8	6	26.1	0	0.0	26	13.5
Total	10	100.0	36	100.0	8	100.0	46	100.0	2	100.0	65	100.0	23	100.0	3	100.0	193	100.0

Table 3-16
Fatal Truck Involvements by Rollover Status – BOBTAILS

Truck rollover status	Total	
	N	%
No rollover	66	83.5
First event	2	2.5
Subsequent event	11	13.9
Total	79	100.0

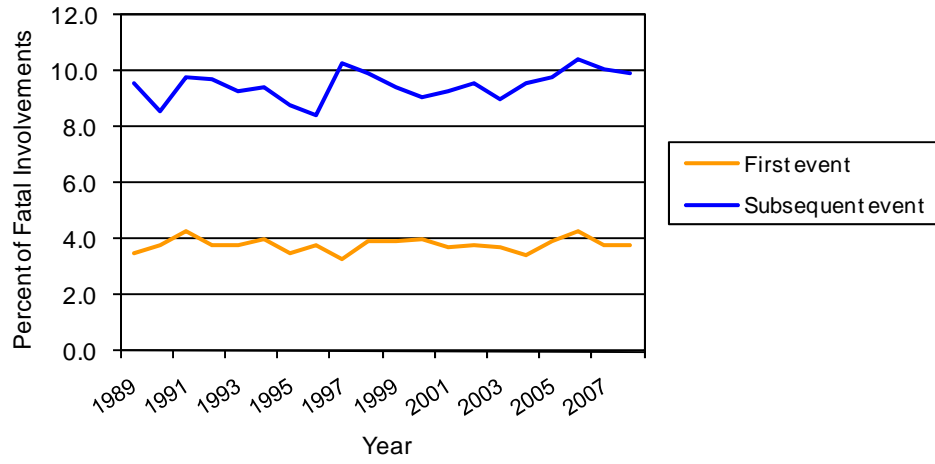
Table 3-17
Fatal Truck Involvements by Rollover Status and Cargo Body Style – TRACTOR/ 1 TRAILER

Truck rollover status	Van		Flatbed		Tank		Dump		Livestock		Pole/logging		Other		None/unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
No rollover	1262	91.1	348	89.5	228	75.0	238	85.6	21	80.8	81	84.4	46	85.2	21	95.5	2245	87.9
First event	21	1.5	18	4.6	29	9.5	9	3.2	1	3.8	3	3.1	5	9.3	0	0.0	86	3.4
Subsequent event	103	7.4	23	5.9	47	15.5	31	11.2	4	15.4	12	12.5	3	5.6	1	4.5	224	8.8
Total	1386	100.0	389	100.0	304	100.0	278	100.0	26	100.0	96	100.0	54	100.0	22	100.0	2555	100.0

Table 3-18
Fatal Truck Involvements by Rollover Status and Cargo Body Style – TRACTOR/ 2 TRAILERS

Truck rollover status	Van		Flatbed		Tank		Dump		Other		Total	
	N	%	N	%	N	%	N	%	N	%	N	%
No rollover	75	88.2	13	100.0	6	66.7	22	91.7	3	60.0	119	87.5
First event	1	1.2	0	0.0	1	11.1	0	0.0	0	0.0	2	1.5
Subsequent event	9	10.6	0	0.0	2	22.2	2	8.3	2	40.0	15	11.0
Total	85	100.0	13	100.0	9	100.0	24	100.0	5	100.0	136	100.0

Figure 3-3
Fatal Truck Involvements by Rollover Status and Year



Note: Data from Trucks Involved in Fatal Accidents, 1989-2008

Driver

This section provides statistics on the drivers of trucks involved in fatal traffic accidents. Tables cover driver age, sex, alcohol or drug use, safety belt use, driver injury, compensation, hours driven, licensing, previous driving record, and driver factors related to the accident.

- 3.1% of truck drivers involved in a fatal traffic accident had been drinking.
- Drug use was reported for 1.2% of truck drivers in a fatal crash.
- 95.4% of truck drivers involved in a fatal accident were male.
- 639 truck drivers were fatally injured in a traffic accident.
- 1.6% of truck drivers involved in a fatal accident were recorded as drowsy or asleep.
- Failure to stay in lane was the most common driver factor recorded (10.9%), followed by inattentive (6.1%), driving too fast for conditions (4.8%), and failure to yield (4.0%). Cellular phone in use was cited for 0.3% of drivers.
- 62.1% of truck drivers had no driver factors recorded.
- 44.8% of straight truck drivers are paid by the hour, compared with 13.7% of tractor-semitrailer drivers. Drivers of tractor-semitrailers are most commonly paid by the mile (24.4%), compared to 0.6% of straight truck drivers. However, method of compensation could not be determined in 40.1% of involvements.
- Drivers of government-owned and private company trucks are predominately paid by the hour, 82.0% and 47.8%, respectively.
- Drivers of 25.2% of Intrastate trucks and 15.0% of Interstate trucks had been driving one hour or less at the time of the accident.

Injuries are classified according to severity under the following levels:

Severity category	Definition
K	Fatal injury
A	Incapacitating injury
B	Evident but not incapacitating
C	Complaint of pain
O	No injury

Table 4-1
Fatal Truck Involvements by Driver Drinking Status and Truck Configuration

Truck driver drinking	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
No drinking	1235	93.9	180	93.3	76	96.2	2512	98.6	132	97.1	22	100.0	58	96.7	4215	96.9
Drinking	80	6.1	13	6.7	3	3.8	35	1.4	4	2.9	0	0.0	2	3.3	137	3.1
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 4-2
Fatal Truck Involvements by Driver Drug Use and Truck Configuration

Truck driver drug use	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
No drugs	450	34.2	73	37.8	27	34.2	949	37.3	47	34.6	9	40.9	38	63.3	1593	36.6
Drugs involved	17	1.3	2	1.0	1	1.3	30	1.2	3	2.2	0	0.0	1	1.7	54	1.2
Not reported	759	57.7	109	56.5	47	59.5	1406	55.2	77	56.6	10	45.5	14	23.3	2422	55.7
Reported unknown	89	6.8	9	4.7	4	5.1	162	6.4	9	6.6	3	13.6	7	11.7	283	6.5
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 4-3
Fatal Truck Involvements by Driver Age and Truck Configuration

Age (years)	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
11-20	19	1.4	8	4.1	0	0.0	9	0.4	0	0.0	0	0.0	0	0.0	36	0.8
21-25	97	7.4	14	7.3	7	8.9	76	3.0	5	3.7	2	9.1	4	6.7	205	4.7
26-30	126	9.6	21	10.9	9	11.4	149	5.9	6	4.4	3	13.6	1	1.7	315	7.2
31-35	147	11.2	16	8.3	6	7.6	266	10.4	9	6.6	2	9.1	3	5.0	449	10.3
36-40	148	11.3	23	11.9	11	13.9	345	13.5	19	14.0	1	4.5	8	13.3	555	12.8
41-45	200	15.2	24	12.4	8	10.1	374	14.7	28	20.6	1	4.5	7	11.7	642	14.8
46-50	175	13.3	24	12.4	11	13.9	376	14.8	17	12.5	3	13.6	8	13.3	614	14.1
51-55	162	12.3	22	11.4	16	20.3	367	14.4	22	16.2	2	9.1	10	16.7	601	13.8
56-60	111	8.4	16	8.3	7	8.9	279	11.0	18	13.2	4	18.2	5	8.3	440	10.1
61-65	51	3.9	10	5.2	3	3.8	170	6.7	3	2.2	2	9.1	4	6.7	243	5.6
66-70	27	2.1	9	4.7	1	1.3	61	2.4	6	4.4	1	4.5	2	3.3	107	2.5
71-75	23	1.7	2	1.0	0	0.0	36	1.4	0	0.0	0	0.0	0	0.0	61	1.4
> 75	6	0.5	2	1.0	0	0.0	7	0.3	0	0.0	0	0.0	1	1.7	16	0.4
Unknown	23	1.7	2	1.0	0	0.0	32	1.3	3	2.2	1	4.5	7	11.7	68	1.6
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 4-4
Fatal Truck Involvements by Driver Sex and Truck Configuration

Driver sex	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Male	1248	94.9	186	96.4	78	98.7	2440	95.8	128	94.1	20	90.9	50	83.3	4150	95.4
Female	45	3.4	5	2.6	1	1.3	77	3.0	5	3.7	1	4.5	3	5.0	137	3.1
Unknown	22	1.7	2	1.0	0	0.0	30	1.2	3	2.2	1	4.5	7	11.7	65	1.5
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 4-5
Fatal Truck Involvements by Driver Restraint Use and Truck Configuration

Restraint use	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
None used or not applicable	233	17.7	31	16.1	14	17.7	230	9.0	8	5.9	1	4.5	7	11.7	524	12.0
Shoulder belt	7	0.5	0	0.0	0	0.0	8	0.3	0	0.0	0	0.0	2	3.3	17	0.4
Lap belt	38	2.9	2	1.0	0	0.0	51	2.0	4	2.9	0	0.0	2	3.3	97	2.2
Lap and shoulder	929	70.6	147	76.2	54	68.4	2056	80.7	114	83.8	17	77.3	37	61.7	3354	77.1
Used, type unknown	2	0.2	0	0.0	1	1.3	1	0.0	0	0.0	0	0.0	0	0.0	4	0.1
Belt use improper	3	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Unknown	103	7.8	13	6.7	10	12.7	201	7.9	10	7.4	4	18.2	12	20.0	353	8.1
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 4-6
Fatal Truck Involvements by Driver Injury Severity and Truck Configuration

Driver injury severity	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Fatal injury (K)	221	16.8	23	11.9	13	16.5	354	13.9	20	14.7	2	9.1	6	10.0	639	14.7
Incapacitating (A)	67	5.1	7	3.6	1	1.3	98	3.8	4	2.9	0	0.0	2	3.3	179	4.1
Non-incapacitating (B)	170	12.9	23	11.9	9	11.4	236	9.3	11	8.1	2	9.1	6	10.0	457	10.5
Complaint of pain (C)	142	10.8	23	11.9	8	10.1	249	9.8	16	11.8	3	13.6	3	5.0	444	10.2
No injury (O)	692	52.6	115	59.6	47	59.5	1583	62.2	82	60.3	14	63.6	37	61.7	2570	59.1
Unknown	23	1.7	2	1.0	1	1.3	27	1.1	3	2.2	1	4.5	6	10.0	63	1.4
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 4-7
Fatal Truck Involvements by Driver Injury Severity and Rollover, Fire, Ejection Status

Rollover, fire, and ejection	Fatal injury (K)		Incapacitating (A)		Non-incapacitating (B)		Complaint of pain (C)		No injury (O)		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Rollover only	161	25.2	42	23.5	92	20.1	50	11.3	68	2.6	0	0.0	413	9.5
Fire only	72	11.3	14	7.8	32	7.0	29	6.5	62	2.4	2	3.2	211	4.8
Ejection only	47	7.4	4	2.2	1	0.2	0	0.0	1	0.0	0	0.0	53	1.2
Rollover and fire	40	6.3	2	1.1	8	1.8	1	0.2	2	0.1	0	0.0	53	1.2
Rollover and ejection	108	16.9	3	1.7	1	0.2	0	0.0	0	0.0	0	0.0	112	2.6
Fire and ejection	7	1.1	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0	8	0.2
Rollover, fire, and ejection	7	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	0.2
None	189	29.6	108	60.3	318	69.6	362	81.5	2433	94.7	10	15.9	3420	78.6
Unknown	8	1.3	5	2.8	5	1.1	2	0.5	4	0.2	51	81.0	75	1.7
Total	639	100.0	179	100.0	457	100.0	444	100.0	2570	100.0	63	100.0	4352	100.0

Table 4-8
Fatal Truck Involvements by Driver Extrication and Truck Configuration

Driver extrication	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Not extricated	1215	92.4	182	94.3	76	96.2	2394	94.0	125	91.9	21	95.5	49	81.7	4062	93.3
Extricated	78	5.9	8	4.1	3	3.8	125	4.9	8	5.9	0	0.0	7	11.7	229	5.3
Unknown	22	1.7	3	1.6	0	0.0	28	1.1	3	2.2	1	4.5	4	6.7	61	1.4
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 4-9
Fatal Truck Involvements by Reported Hours Driven and Truck Configuration

Hours driven	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1 hour	284	21.6	36	18.7	23	29.1	328	12.9	26	19.1	8	36.4	0	0.0	705	16.2
2 hours	139	10.6	27	14.0	7	8.9	253	9.9	14	10.3	4	18.2	0	0.0	444	10.2
3 hours	97	7.4	16	8.3	2	2.5	173	6.8	14	10.3	1	4.5	0	0.0	303	7.0
4-5 hours	122	9.3	16	8.3	8	10.1	320	12.6	20	14.7	1	4.5	0	0.0	487	11.2
6-7 hours	83	6.3	5	2.6	9	11.4	179	7.0	14	10.3	0	0.0	0	0.0	290	6.7
8-9 hours	20	1.5	4	2.1	3	3.8	138	5.4	5	3.7	0	0.0	1	1.7	171	3.9
10-11 hours	8	0.6	0	0.0	0	0.0	54	2.1	1	0.7	0	0.0	0	0.0	63	1.4
12-18 hours	1	0.1	1	0.5	2	2.5	8	0.3	0	0.0	0	0.0	0	0.0	12	0.3
> 18 hours	0	0.0	0	0.0	0	0.0	4	0.2	0	0.0	0	0.0	0	0.0	4	0.1
Unknown, legal	130	9.9	21	10.9	7	8.9	551	21.6	19	14.0	4	18.2	0	0.0	732	16.8
Unknown, not legal	1	0.1	0	0.0	1	1.3	14	0.5	0	0.0	0	0.0	0	0.0	16	0.4
Unknown/not applicable	430	32.7	67	34.7	17	21.5	525	20.6	23	16.9	4	18.2	59	98.3	1125	25.9
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 4-10
Fatal Truck Involvements by Reported Hours Driven and Trip Type

Hours driven	Local		51-100 miles		101-150 miles		151-200 miles		201-500 miles		Over 500 miles		Unknown over-the-road		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1 hour	412	26.3	88	18.1	22	10.4	35	18.5	41	8.1	73	13.4	14	11.6	20	2.7	705	16.2
2 hours	196	12.5	73	15.0	34	16.1	20	10.6	60	11.9	50	9.2	6	5.0	5	0.7	444	10.2
3 hours	130	8.3	36	7.4	30	14.2	24	12.7	39	7.7	38	7.0	2	1.7	4	0.5	303	7.0
4-5 hours	180	11.5	66	13.6	42	19.9	33	17.5	84	16.6	67	12.3	7	5.8	8	1.1	487	11.2
6-7 hours	112	7.2	54	11.1	17	8.1	17	9.0	52	10.3	31	5.7	4	3.3	3	0.4	290	6.7
8-9 hours	52	3.3	19	3.9	13	6.2	8	4.2	36	7.1	41	7.5	2	1.7	0	0.0	171	3.9
10-11 hours	16	1.0	10	2.1	0	0.0	4	2.1	10	2.0	22	4.0	1	0.8	0	0.0	63	1.4
12-18 hours	3	0.2	0	0.0	0	0.0	1	0.5	2	0.4	6	1.1	0	0.0	0	0.0	12	0.3
> 18 hours	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	2	0.4	1	0.8	0	0.0	4	0.1
Unknown, legal	212	13.5	75	15.4	34	16.1	31	16.4	113	22.3	128	23.5	47	38.8	92	12.6	732	16.8
Unknown, not legal	1	0.1	0	0.0	1	0.5	0	0.0	4	0.8	7	1.3	0	0.0	3	0.4	16	0.4
Unknown/not applicable	251	16.0	66	13.6	18	8.5	16	8.5	64	12.6	80	14.7	37	30.6	593	81.5	1125	25.9
Total	1565	100.0	487	100.0	211	100.0	189	100.0	506	100.0	545	100.0	121	100.0	728	100.0	4352	100.0

Table 4-11
Fatal Truck Involvements by Reported Hours Driven and Operating Authority

Hours driven	Private		For hire		Personal use		Government		Rental		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1 hour	326	24.2	350	14.1	0	0.0	24	24.0	1	3.7	4	1.7	705	16.2
2 hours	161	11.9	262	10.5	0	0.0	14	14.0	2	7.4	5	2.2	444	10.2
3 hours	111	8.2	175	7.0	0	0.0	13	13.0	1	3.7	3	1.3	303	7.0
4-5 hours	171	12.7	303	12.2	0	0.0	10	10.0	1	3.7	2	0.9	487	11.2
6-7 hours	99	7.3	180	7.2	0	0.0	8	8.0	1	3.7	2	0.9	290	6.7
8-9 hours	27	2.0	137	5.5	0	0.0	5	5.0	0	0.0	2	0.9	171	3.9
10-11 hours	14	1.0	48	1.9	0	0.0	1	1.0	0	0.0	0	0.0	63	1.4
12-18 hours	2	0.1	10	0.4	0	0.0	0	0.0	0	0.0	0	0.0	12	0.3
> 18 hours	0	0.0	4	0.2	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1
Unknown, legal	170	12.6	518	20.8	0	0.0	12	12.0	1	3.7	31	13.4	732	16.8
Unknown, not legal	2	0.1	13	0.5	0	0.0	0	0.0	0	0.0	1	0.4	16	0.4
Unknown/not applicable	265	19.7	487	19.6	159	100.0	13	13.0	20	74.1	181	78.4	1125	25.9
Total	1348	100.0	2487	100.0	159	100.0	100	100.0	27	100.0	231	100.0	4352	100.0

Table 4-12
Fatal Truck Involvements by Reported Hours Driven and Area of Operation

Hours driven	Interstate		Intrastate		Personal use		Government		Rental		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1 hour	422	15.0	243	25.2	0	0.0	24	24.0	1	3.7	15	5.1	705	16.2
2 hours	300	10.7	117	12.1	0	0.0	14	14.0	2	7.4	11	3.8	444	10.2
3 hours	204	7.3	79	8.2	0	0.0	13	13.0	1	3.7	6	2.0	303	7.0
4-5 hours	353	12.6	116	12.0	0	0.0	10	10.0	1	3.7	7	2.4	487	11.2
6-7 hours	201	7.2	80	8.3	0	0.0	8	8.0	1	3.7	0	0.0	290	6.7
8-9 hours	142	5.1	21	2.2	0	0.0	5	5.0	0	0.0	3	1.0	171	3.9
10-11 hours	48	1.7	13	1.3	0	0.0	1	1.0	0	0.0	1	0.3	63	1.4
12-18 hours	12	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	12	0.3
> 18 hours	4	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1
Unknown, legal	559	19.9	123	12.8	0	0.0	12	12.0	1	3.7	37	12.6	732	16.8
Unknown, not legal	12	0.4	2	0.2	0	0.0	0	0.0	0	0.0	2	0.7	16	0.4
Unknown/not applicable	553	19.7	169	17.5	159	100.0	13	13.0	20	74.1	211	72.0	1125	25.9
Total	2810	100.0	963	100.0	159	100.0	100	100.0	27	100.0	293	100.0	4352	100.0

Table 4-13
Fatal Truck Involvements by Reported Hours Driven and Area of Operation – STRAIGHT TRUCKS ONLY

Hours driven	Interstate		Intrastate		Personal use		Government		Rental		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1 hour	113	21.9	174	29.4	0	0.0	18	20.9	1	3.7	15	11.1	321	21.2
2 hours	74	14.3	72	12.2	0	0.0	13	15.1	2	7.4	7	5.2	168	11.1
3 hours	42	8.1	54	9.1	0	0.0	13	15.1	1	3.7	4	3.0	114	7.5
4-5 hours	61	11.8	65	11.0	0	0.0	9	10.5	1	3.7	2	1.5	138	9.1
6-7 hours	32	6.2	49	8.3	0	0.0	6	7.0	1	3.7	0	0.0	88	5.8
8-9 hours	8	1.5	10	1.7	0	0.0	4	4.7	0	0.0	2	1.5	24	1.6
10-11 hours	3	0.6	4	0.7	0	0.0	1	1.2	0	0.0	0	0.0	8	0.5
12-18 hours	2	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
Unknown, legal	68	13.2	56	9.5	0	0.0	11	12.8	1	3.7	17	12.6	153	10.1
Unknown, not legal	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.7	1	0.1
Unknown/not applicable	114	22.1	108	18.2	159	100.0	11	12.8	20	74.1	87	64.4	499	32.9
Total	517	100.0	592	100.0	159	100.0	86	100.0	27	100.0	135	100.0	1516	100.0

Table 4-14
Fatal Truck Involvements by Reported Hours Driven and Area of Operation – TRACTORS ONLY

Hours driven	Interstate		Intrastate		Government		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%
1 hour	309	13.5	69	18.6	6	42.9	0	0.0	384	13.8
2 hours	226	9.9	45	12.1	1	7.1	4	4.0	276	9.9
3 hours	162	7.1	25	6.7	0	0.0	2	2.0	189	6.8
4 - 5 hours	292	12.7	51	13.7	1	7.1	5	5.0	349	12.6
6 - 7 hours	169	7.4	31	8.4	2	14.3	0	0.0	202	7.3
8 - 9 hours	133	5.8	11	3.0	1	7.1	1	1.0	146	5.3
10 - 11 hours	45	2.0	9	2.4	0	0.0	1	1.0	55	2.0
12 - 18 hours	10	0.4	0	0.0	0	0.0	0	0.0	10	0.4
> 18 hours	4	0.2	0	0.0	0	0.0	0	0.0	4	0.1
Unknown, legal	491	21.4	67	18.1	1	7.1	20	20.0	579	20.9
Unknown, not legal	12	0.5	2	0.5	0	0.0	1	1.0	15	0.5
Unknown/not applicable	438	19.1	61	16.4	2	14.3	66	66.0	567	20.4
Total	2291	100.0	371	100.0	14	100.0	100	100.0	2776	100.0

Table 4-15
Fatal Truck Involvements by Number of Previous Accidents and Truck Configuration

Number of previous accidents	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
0	1012	77.0	156	80.8	58	73.4	1948	76.5	100	73.5	19	86.4	32	53.3	3325	76.4
1	161	12.2	18	9.3	8	10.1	261	10.2	16	11.8	1	4.5	5	8.3	470	10.8
2	25	1.9	4	2.1	6	7.6	37	1.5	2	1.5	1	4.5	0	0.0	75	1.7
3	3	0.2	1	0.5	0	0.0	4	0.2	0	0.0	0	0.0	0	0.0	8	0.2
4	4	0.3	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	6	0.1
5	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Not reported	78	5.9	10	5.2	7	8.9	162	6.4	12	8.8	0	0.0	15	25.0	284	6.5
Unknown	32	2.4	4	2.1	0	0.0	131	5.1	6	4.4	1	4.5	8	13.3	182	4.2
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 4-16
Fatal Truck Involvements by Number of Previous Suspensions and Truck Configuration

Number of previous suspensions	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
0	1175	89.4	175	90.7	70	88.6	2257	88.6	123	90.4	19	86.4	48	80.0	3867	88.9
1	54	4.1	10	5.2	6	7.6	104	4.1	5	3.7	2	9.1	4	6.7	185	4.3
2	31	2.4	2	1.0	2	2.5	33	1.3	0	0.0	0	0.0	0	0.0	68	1.6
3	13	1.0	2	1.0	0	0.0	9	0.4	0	0.0	0	0.0	0	0.0	24	0.6
4	5	0.4	0	0.0	0	0.0	9	0.4	1	0.7	0	0.0	0	0.0	15	0.3
5	0	0.0	0	0.0	0	0.0	2	0.1	1	0.7	0	0.0	0	0.0	3	0.1
6	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
7	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
8	1	0.1	0	0.0	1	1.3	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
12	2	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Unknown	32	2.4	4	2.1	0	0.0	131	5.1	6	4.4	1	4.5	8	13.3	182	4.2
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 4-17
Fatal Truck Involvements by Number of Previous Speeding Convictions and Truck Configuration

Number of previous speeding convictions	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
0	1013	77.0	147	76.2	55	69.6	1808	71.0	98	72.1	16	72.7	41	68.3	3178	73.0
1	205	15.6	33	17.1	17	21.5	441	17.3	21	15.4	4	18.2	7	11.7	728	16.7
2	52	4.0	7	3.6	5	6.3	120	4.7	9	6.6	1	4.5	3	5.0	197	4.5
3	9	0.7	1	0.5	1	1.3	35	1.4	1	0.7	0	0.0	1	1.7	48	1.1
4	2	0.2	0	0.0	1	1.3	9	0.4	0	0.0	0	0.0	0	0.0	12	0.3
5	2	0.2	1	0.5	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	5	0.1
6	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
7	0	0.0	0	0.0	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	1	0.0
Unknown	32	2.4	4	2.1	0	0.0	131	5.1	6	4.4	1	4.5	8	13.3	182	4.2
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 4-18
Fatal Truck Involvements by Previous Other Moving Convictions and Truck Configuration

Number of previous other moving convictions	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
0	988	75.1	154	79.8	61	77.2	1733	68.0	102	75.0	17	77.3	36	60.0	3091	71.0
1	204	15.5	26	13.5	11	13.9	454	17.8	20	14.7	3	13.6	9	15.0	727	16.7
2	58	4.4	6	3.1	4	5.1	148	5.8	5	3.7	1	4.5	5	8.3	227	5.2
3	23	1.7	3	1.6	1	1.3	50	2.0	2	1.5	0	0.0	1	1.7	80	1.8
4	8	0.6	0	0.0	2	2.5	18	0.7	0	0.0	0	0.0	0	0.0	28	0.6
5	1	0.1	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	1	1.7	7	0.2
6	0	0.0	0	0.0	0	0.0	5	0.2	1	0.7	0	0.0	0	0.0	6	0.1
7	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
8	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
11	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Unknown	32	2.4	4	2.1	0	0.0	131	5.1	6	4.4	1	4.5	8	13.3	182	4.2
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 4-19
Fatal Truck Involvements by License Class Compliance and Truck Configuration

License class compliance	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Not licensed	15	1.1	4	2.1	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	22	0.5
Not valid	68	5.2	8	4.1	3	3.8	48	1.9	1	0.7	0	0.0	0	0.0	128	2.9
Valid	1196	91.0	177	91.7	76	96.2	2390	93.8	131	96.3	21	95.5	52	86.7	4043	92.9
Unknown if CDL required	11	0.8	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	13	0.3
Unknown	25	1.9	4	2.1	0	0.0	104	4.1	4	2.9	1	4.5	8	13.3	146	3.4
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 4-20
Fatal Truck Involvements by CDL License Status and Truck Configuration

CDL license status	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
No CDL	513	39.0	77	39.9	1	1.3	29	1.1	1	0.7	4	18.2	9	15.0	634	14.6
Suspended	7	0.5	2	1.0	2	2.5	16	0.6	1	0.7	0	0.0	0	0.0	28	0.6
Revoked	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Expired	8	0.6	0	0.0	0	0.0	13	0.5	0	0.0	0	0.0	0	0.0	21	0.5
Cancelled/denied	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Disqualified	2	0.2	0	0.0	0	0.0	1	0.0	1	0.7	0	0.0	0	0.0	4	0.1
Valid	751	57.1	108	56.0	75	94.9	2373	93.2	128	94.1	16	72.7	43	71.7	3494	80.3
Learner's permit	5	0.4	2	1.0	0	0.0	0	0.0	1	0.7	1	4.5	0	0.0	9	0.2
Other - not valid	3	0.2	0	0.0	0	0.0	7	0.3	0	0.0	0	0.0	0	0.0	10	0.2
Unknown	25	1.9	4	2.1	1	1.3	106	4.2	4	2.9	1	4.5	8	13.3	149	3.4
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 4-21
Fatal Truck Involvements by License Endorsements and Truck Configuration

License endorsements	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
No endorsements	1046	79.5	161	83.4	52	65.8	1475	57.9	26	19.1	15	68.2	44	73.3	2819	64.8
Complied	151	11.5	25	13.0	20	25.3	657	25.8	87	64.0	3	13.6	5	8.3	948	21.8
Not complied	7	0.5	0	0.0	0	0.0	18	0.7	0	0.0	1	4.5	0	0.0	26	0.6
Compliance unknown	58	4.4	3	1.6	4	5.1	224	8.8	16	11.8	0	0.0	1	1.7	306	7.0
Unknown	53	4.0	4	2.1	3	3.8	173	6.8	7	5.1	3	13.6	10	16.7	253	5.8
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Table 4-22
Fatal Truck Involvements by Driver-Related Factors and Truck Configuration

Driver-related factors	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
None	784	59.6	109	56.5	50	63.3	1619	63.6	90	66.2	10	45.5	39	65.0	2701	62.1
<i>Physical/mental conditions</i>																
Drowsy, sleepy, asleep, fatigued	26	2.0	5	2.6	2	2.5	35	1.4	3	2.2	0	0.0	0	0.0	71	1.6
Ill, passed out, blackout	7	0.5	2	1.0	0	0.0	14	0.5	0	0.0	0	0.0	1	1.7	24	0.6
Alcohol, drugs, medication	58	4.4	10	5.2	1	1.3	27	1.1	2	1.5	0	0.0	2	3.3	100	2.3
Careless/inattentive	93	7.1	11	5.7	4	5.1	151	5.9	7	5.1	0	0.0	1	1.7	267	6.1
Aggressive driving/road rage	0	0.0	0	0.0	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	1	0.0
<i>Miscellaneous causes</i>																
Prohibited trafficway	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Vehicle unattended	11	0.8	1	0.5	0	0.0	13	0.5	1	0.7	1	4.5	1	1.7	28	0.6
Improper loading	2	0.2	3	1.6	0	0.0	10	0.4	0	0.0	1	4.5	0	0.0	16	0.4
Improper towing	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	4.5	0	0.0	1	0.0
Improper lights	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Without required equipment	8	0.6	2	1.0	0	0.0	10	0.4	0	0.0	2	9.1	0	0.0	22	0.5
Improper tailing	13	1.0	3	1.6	2	2.5	49	1.9	1	0.7	0	0.0	5	8.3	73	1.7
Improper lane change	8	0.6	0	0.0	0	0.0	16	0.6	3	2.2	0	0.0	0	0.0	27	0.6
Failure to stay in lane	175	13.3	24	12.4	10	12.7	244	9.6	14	10.3	4	18.2	3	5.0	474	10.9
Driving on shoulder	9	0.7	0	0.0	1	1.3	10	0.4	0	0.0	0	0.0	0	0.0	20	0.5
Improper entry/exit	2	0.2	0	0.0	1	1.3	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Improper start/back	7	0.5	0	0.0	1	1.3	7	0.3	0	0.0	0	0.0	0	0.0	15	0.3
Prohibited passing	6	0.5	1	0.5	0	0.0	5	0.2	0	0.0	1	4.5	0	0.0	13	0.3
Passing on wrong side	2	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Passing - insufficient distance	4	0.3	1	0.5	1	1.3	4	0.2	0	0.0	0	0.0	0	0.0	10	0.2
Erratic/reckless	15	1.1	0	0.0	0	0.0	24	0.9	0	0.0	0	0.0	0	0.0	39	0.9
High speed chase	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Failure to yield	66	5.0	7	3.6	0	0.0	88	3.5	5	3.7	3	13.6	3	5.0	172	4.0
Failure to obey signs	32	2.4	7	3.6	5	6.3	59	2.3	1	0.7	0	0.0	1	1.7	105	2.4
Fail to observe warning	0	0.0	0	0.0	0	0.0	3	0.1	1	0.7	0	0.0	0	0.0	4	0.1
Failure to signal	0	0.0	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Driving too fast for conditions	65	4.9	7	3.6	3	3.8	117	4.6	7	5.1	1	4.5	8	13.3	208	4.8
Driving in excess of posted maximum	43	3.3	7	3.6	1	1.3	88	3.5	5	3.7	0	0.0	0	0.0	144	3.3
Driving less than posted minimum	1	0.1	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	1	1.7	7	0.2
Wrong lane turn	0	0.0	1	0.5	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Other improper turn	25	1.9	3	1.6	0	0.0	29	1.1	2	1.5	1	4.5	1	1.7	61	1.4
Wrong side of road	7	0.5	1	0.5	0	0.0	9	0.4	0	0.0	0	0.0	0	0.0	17	0.4
Operator inexperience	1	0.1	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Unfamiliar with roadway	0	0.0	0	0.0	0	0.0	7	0.3	0	0.0	0	0.0	0	0.0	7	0.2
Stopped in roadway	8	0.6	0	0.0	0	0.0	17	0.7	0	0.0	0	0.0	0	0.0	25	0.6
Underriding a parked truck	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Locked wheel	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Over correcting	36	2.7	2	1.0	1	1.3	27	1.1	1	0.7	1	4.5	0	0.0	68	1.6

(continued on next page)

Table 4-22 (continued)

Driver-related factors	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Vision obscured by</i>																
Rain, snow, fog, smoke, sand, dust	10	0.8	1	0.5	1	1.3	42	1.6	5	3.7	0	0.0	0	0.0	54	1.2
Glare, bright sunlight, headlights	2	0.2	0	0.0	0	0.0	4	0.2	0	0.0	0	0.0	0	0.0	6	0.1
Curve, hill, design features	3	0.2	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	8	0.2
Building, billboard, other structures	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Trees, crops, vegetation	1	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Moving vehicle	0	0.0	0	0.0	0	0.0	3	0.1	1	0.7	0	0.0	0	0.0	3	0.1
Parked vehicle	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Inadequate lighting system	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Obstructing angles on vehicle	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Other visual obstruction	2	0.2	0	0.0	0	0.0	1	0.0	0	0.0	1	4.5	0	0.0	4	0.1
<i>Avoiding, swerving due to</i>																
Severe crosswind	0	0.0	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Slippery or loose surface	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Tire blowout or flat	2	0.2	1	0.5	0	0.0	9	0.4	0	0.0	0	0.0	0	0.0	12	0.3
Debris or objects in road	1	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Live animal in road	2	0.2	0	0.0	0	0.0	4	0.2	0	0.0	0	0.0	0	0.0	6	0.1
Vehicle in road	3	0.2	2	1.0	2	2.5	15	0.6	2	1.5	0	0.0	0	0.0	24	0.6
Phantom vehicle	1	0.1	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Pedestrian or pedalcyclist	2	0.2	0	0.0	1	1.3	5	0.2	0	0.0	0	0.0	0	0.0	8	0.2
Ice, snow, slush, water, sand, dirt, oil, wet leaves	16	1.2	3	1.6	1	1.3	48	1.9	2	1.5	0	0.0	1	1.7	71	1.6
Trailer fishtailing or swaying	0	0.0	1	0.5	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
<i>Other misc. factors</i>																
Restriction noncompliance	4	0.3	1	0.5	1	1.3	8	0.3	0	0.0	2	9.1	0	0.0	16	0.4
License in more than one state	1	0.1	1	0.5	1	1.3	6	0.2	0	0.0	0	0.0	0	0.0	9	0.2
Hit and run driver	11	0.8	1	0.5	2	2.5	17	0.7	1	0.7	0	0.0	3	5.0	35	0.8
Nontraffic violation charged	5	0.4	4	2.1	1	1.3	16	0.6	0	0.0	1	4.5	0	0.0	27	0.6
Other non-moving traffic violation	20	1.5	9	4.7	1	1.3	32	1.3	1	0.7	0	0.0	0	0.0	63	1.4
<i>Possible distractions</i>																
Cellular phone present	23	1.7	7	3.6	0	0.0	70	2.7	1	0.7	0	0.0	0	0.0	101	2.3
Cellular phone in use	8	0.6	0	0.0	0	0.0	4	0.2	0	0.0	0	0.0	0	0.0	12	0.3
<i>Unknown</i>	15	1.1	2	1.0	0	0.0	26	1.0	1	0.7	0	0.0	0	0.0	44	1.0
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Note: Since Driver-Related Factors is a multiple-response variable, more than one driver factor can be coded per driver. Percents are calculated based on total drivers, not total factors.

Table 4-23
Fatal Truck Involvements by Driver Compensation and Truck Configuration

Driver compensation	Straight truck		Straight truck with 1 trailer		Bobtail		Tractor with 1 semitrailer		Tractor with 2 trailers		Other combinations		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
% of gross trip revenue	22	1.7	6	3.1	1	1.3	263	10.3	5	3.7	3	13.6	0	0.0	300	6.9
By the hour	589	44.8	74	38.3	11	13.9	348	13.7	15	11.0	1	4.5	0	0.0	1038	23.9
By the mile	8	0.6	3	1.6	16	20.3	621	24.4	33	24.3	2	9.1	0	0.0	683	15.7
By the hour and mile	3	0.2	0	0.0	0	0.0	33	1.3	9	6.6	0	0.0	0	0.0	45	1.0
By the load	41	3.1	9	4.7	11	13.9	276	10.8	19	14.0	1	4.5	0	0.0	357	8.2
Other	78	5.9	10	5.2	2	2.5	81	3.2	9	6.6	6	27.3	0	0.0	186	4.3
Unknown	574	43.7	91	47.2	38	48.1	925	36.3	46	33.8	9	40.9	60	100.0	1743	40.1
Total	1315	100.0	193	100.0	79	100.0	2547	100.0	136	100.0	22	100.0	60	100.0	4352	100.0

Figure 4-1
Fatal Truck Involvements by Driver Compensation and Truck Configuration

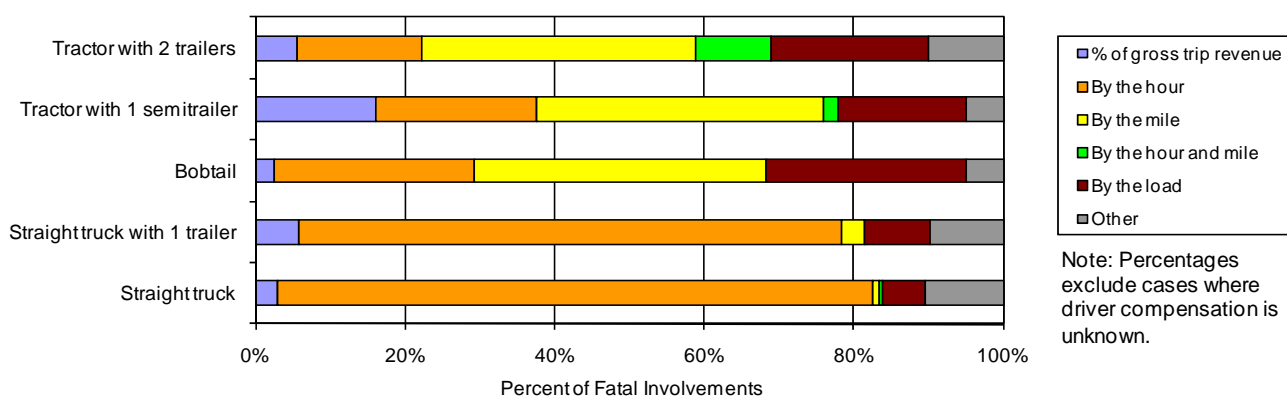
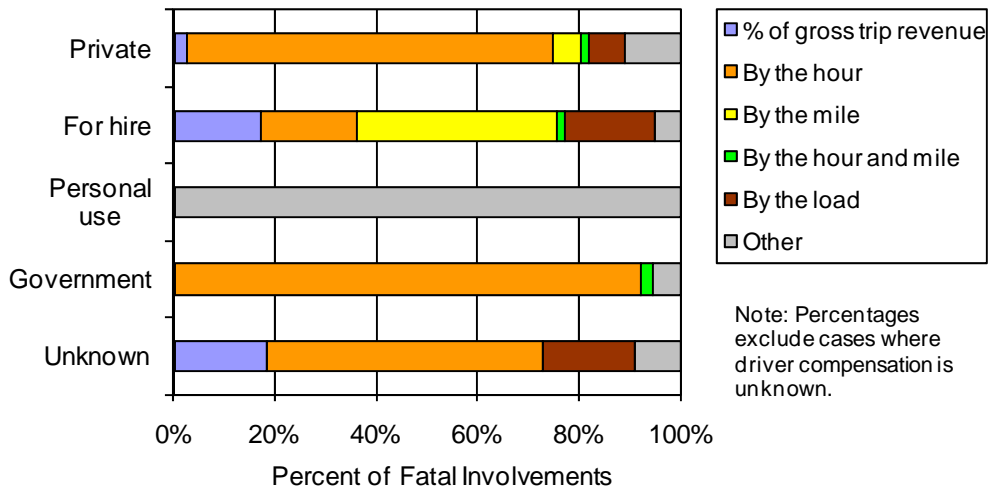


Table 4-24
Fatal Truck Involvements by Driver Compensation and Operating Authority

Driver compensation	Private		For hire		Personal use		Government		Rental		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
% of gross trip revenue	23	1.7	275	11.1	0	0.0	0	0.0	0	0.0	2	0.9	300	6.9
By the hour	644	47.8	306	12.3	0	0.0	82	82.0	0	0.0	6	2.6	1038	23.9
By the mile	47	3.5	636	25.6	0	0.0	0	0.0	0	0.0	0	0.0	683	15.7
By the hour and mile	14	1.0	29	1.2	0	0.0	2	2.0	0	0.0	0	0.0	45	1.0
By the load	66	4.9	289	11.6	0	0.0	0	0.0	0	0.0	2	0.9	357	8.2
Other	98	7.3	82	3.3	0	0.0	5	5.0	0	0.0	1	0.4	186	4.3
Unknown	456	33.8	870	35.0	159	100.0	11	11.0	27	100.0	220	95.2	1743	40.1
Total	1348	100.0	2487	100.0	159	100.0	100	100.0	27	100.0	231	100.0	4352	100.0

Figure 4-2
Fatal Truck Involvements by Driver Compensation and Operating Authority



Straight trucks

This section provides descriptive statistics on straight trucks involved in a fatal traffic accident in 2008. All truck configurations in which the power unit was a straight truck are included in this section. A straight truck is a truck power unit with a permanently attached cargo body. Straight truck configurations include trucks pulling no trailers, trucks pulling a full or other trailer, and wreckers towing cars or other straight trucks.

- Truck configurations with a straight-truck power unit accounted for 34.8% of all trucks involved in a fatal traffic accident in 2008.
- 36.7% of straight trucks were Class 8 (over 33,000 lbs.) Gross Vehicle Weight Rating (GVWR), and 24.2% were Class 3 (10,001-14,000 lbs.).
- 37.0% of straight trucks were empty at the time of the accident; while solids in bulk was the most frequent cargo type, accounting for 20.2%.
- 55.8% of straight truck configurations involved in a fatal traffic accident had two axles, 25.9% had three axles (including the trailer), and one straight truck combination had six axles on the power unit and five axles on the trailer.
- 27.6% of straight trucks were operated by a private, intrastate carrier; 23.4% by a private, interstate carrier; and only 10.0% by a for-hire, interstate carrier.
- 61.9% of straight trucks were on a local trip (within 50 miles of base) at the time of the accident.
- 246 straight truck drivers were fatally injured in a traffic accident; 49.6% occurred in ran-off-road crashes, 9.3% were the result of an untripped rollover, and in 6.1% of cases the truck struck the rear-end of another vehicle.

Note: 238 straight trucks had “other” cargo bodies, bodies that did not fall into any named cargo body type. Most of these were utility bodies or some other working body type such as wreckers, concrete pumps, or boom trucks.

Configuration

Table 5-1
Fatal Truck Involvements by Truck Configuration

Configuration	N	%
<i>Straight truck only</i>	1315	86.7
<i>Straight truck, 1 trailer</i>		
Straight + full trailer	38	2.5
Straight + other	104	6.9
Straight + other, gooseneck hitch	50	3.3
Straight + A-dolly + semitrailer	1	0.1
<i>Subtotal</i>	193	12.7
<i>Other straight combinations</i>		
Wrecker + tow	6	0.4
Wrecker + tow + tow + tow	1	0.1
Straight, unknown if pulling trailer	1	0.1
<i>Subtotal</i>	8	0.5
Total straight trucks	1516	100.0

Table 5-2
Fatal Truck Involvements by Cargo Body Style – Straight Trucks

Cargo body style	N	%
Van	240	15.8
Open top van	2	0.1
Refrigerated van	48	3.2
Flatbed	113	7.5
Flatbed with equipment	25	1.6
Flatbed with sides	23	1.5
Pole/logging	9	0.6
Tank: liquid/gas	68	4.5
Tank: dry	1	0.1
Auto carrier	9	0.6
Dump	303	20.0
Garbage/refuse	119	7.8
Concrete mixer	49	3.2
Pickup	243	16.0
Other	238	15.7
Unknown	26	1.7
Total	1516	100.0

Table 5-3
Fatal Truck Involvements by Gross Vehicle Weight Rating and Cargo Body Style – Straight Trucks

Gross vehicle weight rating (lbs)	Van		Flatbed		Tank		Dump		Refuse		Concrete mixer		Pickup		Other*		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Class 3: 10,001-14,000	39	13.4	51	31.7	1	1.4	6	2.0	0	0.0	0	0.0	231	95.1	32	12.5	7	26.9	367	24.2
Class 4: 14,001-16,000	37	12.8	21	13.0	3	4.3	6	2.0	0	0.0	0	0.0	8	3.3	33	12.9	2	7.7	110	7.3
Class 5: 16,001-19,500	19	6.6	14	8.7	1	1.4	6	2.0	0	0.0	0	0.0	3	1.2	42	16.4	5	19.2	90	5.9
Class 6: 19,501-26,000	120	41.4	25	15.5	5	7.2	7	2.3	3	2.5	0	0.0	0	0.0	48	18.8	1	3.8	209	13.8
Class 7: 26,001-33,000	52	17.9	19	11.8	19	27.5	22	7.3	7	5.9	0	0.0	0	0.0	38	14.8	7	26.9	164	10.8
Class 8: 33,001 or more	18	6.2	27	16.8	40	58.0	254	83.8	108	90.8	49	100.0	0	0.0	57	22.3	4	15.4	557	36.7
Unknown	5	1.7	4	2.5	0	0.0	2	0.7	1	0.8	0	0.0	1	0.4	6	2.3	0	0.0	19	1.3
Total	290	100.0	161	100.0	69	100.0	303	100.0	119	100.0	49	100.0	243	100.0	256	100.0	26	100.0	1516	100.0

* Note: The Other category includes nine pole/logging trucks and nine auto carriers.
 Gross Vehicle Weight Rating (GVWR) pertains to the power unit.

Table 5-4
Fatal Truck Involvements by Cargo Type and Cargo Body Style – Straight Trucks

Cargo type	Van		Open top van		Refrigerated van		Flatbed		Flatbed with equipment		Flatbed with sides		Pole/logging		Tank liquid/gas		Tank dry/bulk	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Empty	43	17.9	1	50.0	8	16.7	55	48.7	8	32.0	6	26.1	2	22.2	15	22.1	0	0.0
General freight	117	48.8	0	0.0	1	2.1	1	0.9	0	0.0	2	8.7	0	0.0	0	0.0	0	0.0
Household goods	27	11.3	0	0.0	0	0.0	1	0.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Building materials	5	2.1	0	0.0	0	0.0	4	3.5	4	16.0	3	13.0	0	0.0	0	0.0	0	0.0
Metal (coils, sheets)	2	0.8	0	0.0	0	0.0	2	1.8	1	4.0	1	4.3	0	0.0	0	0.0	0	0.0
Heavy machinery	0	0.0	0	0.0	0	0.0	10	8.8	0	0.0	1	4.3	0	0.0	0	0.0	0	0.0
Large objects	1	0.4	0	0.0	0	0.0	6	5.3	5	20.0	0	0.0	0	0.0	0	0.0	0	0.0
Motor vehicles	0	0.0	0	0.0	0	0.0	1	0.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Piggyback/towaway	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Gases in bulk	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	7.4	0	0.0
Solids in bulk	8	3.3	1	50.0	0	0.0	4	3.5	1	4.0	4	17.4	0	0.0	0	0.0	1	100.0
Liquids in bulk	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	42	61.8	0	0.0
Explosives	0	0.0	0	0.0	0	0.0	1	0.9	0	0.0	0	0.0	0	0.0	1	1.5	0	0.0
Logs/poles/lumber	1	0.4	0	0.0	0	0.0	5	4.4	0	0.0	0	0.0	6	66.7	0	0.0	0	0.0
Refrigerated foods	0	0.0	0	0.0	35	72.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Farm products	2	0.8	0	0.0	0	0.0	3	2.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Live animals	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.5	0	0.0
Other	15	6.3	0	0.0	0	0.0	13	11.5	5	20.0	6	26.1	0	0.0	0	0.0	0	0.0
Not for cargo	0	0.0	0	0.0	0	0.0	0	0.0	1	4.0	0	0.0	0	0.0	0	0.0	0	0.0
Cargo, unknown type	2	0.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Unknown	17	7.1	0	0.0	4	8.3	7	6.2	0	0.0	0	0.0	1	11.1	4	5.9	0	0.0
Total	240	100.0	2	100.0	48	100.0	113	100.0	25	100.0	23	100.0	9	100.0	68	100.0	1	100.0

(Continued on next page.)

Table 5-4 (continued)

Cargo Type	Auto carrier		Dump		Refuse		Concrete mixer		Pickup		Other		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Empty	4	44.4	132	43.6	30	25.2	16	32.7	167	68.7	72	30.3	2	7.7	561	37.0
General freight	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	1.3	0	0.0	124	8.2
Household goods	0	0.0	0	0.0	0	0.0	0	0.0	2	0.8	0	0.0	0	0.0	30	2.0
Building materials	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4	1	0.4	0	0.0	18	1.2
Metal (coils, sheets)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	0.4
Heavy machinery	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4	1	0.4	0	0.0	13	0.9
Large objects	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4	2	0.8	0	0.0	15	1.0
Motor vehicles	5	55.6	0	0.0	0	0.0	0	0.0	0	0.0	14	5.9	0	0.0	20	1.3
Piggyback/towaway	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	2.9	0	0.0	7	0.5
Gases in bulk	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	0.3
Solids in bulk	0	0.0	147	48.5	85	71.4	32	65.3	6	2.5	17	7.1	0	0.0	306	20.2
Liquids in bulk	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.8	0	0.0	44	2.9
Explosives	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
Logs/poles/lumber	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	14	0.9
Refrigerated foods	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	35	2.3
Farm products	0	0.0	4	1.3	0	0.0	0	0.0	1	0.4	1	0.4	0	0.0	11	0.7
Live animals	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
Other	0	0.0	2	0.7	0	0.0	0	0.0	40	16.5	95	39.9	1	3.8	177	11.7
Not for cargo	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	13	5.5	0	0.0	14	0.9
Cargo, unknown type	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.2
Unknown	0	0.0	16	5.3	4	3.4	1	2.0	24	9.9	9	3.8	23	88.5	110	7.3
Total	9	100.0	303	100.0	119	100.0	49	100.0	243	100.0	238	100.0	26	100.0	1516	100.0

Table 5-5
Fatal Truck Involvements by Axle Combinations – Straight Truck Configurations

Straight only Power unit axles	Straight with 1 trailer Trailer axles	Total	
		N	%
2		842	55.8
3		368	24.4
4		77	5.1
5		17	1.1
6		8	0.5
2	1	22	1.5
2	2	92	6.1
2	3	11	0.7
3	2	38	2.5
3	3	3	0.2
3	4	2	0.1
4	2	4	0.0
4	3	3	0.2
4	4	3	0.2
5	3	1	0.1
5	4	1	0.1
5	6	2	0.1
6	5	1	0.1
Unknown		13	0.9
Total		1508	100.0

Note: The 8 other straight truck combinations were not included in this table.

Vehicle use

Table 5-6
Fatal Truck Involvements by Carrier Type and Cargo Body Style – Straight Trucks

Carrier type	Van		Flatbed		Tank		Dump		Refuse		Concrete mixer		Pickup		Other*		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Interstate private	95	32.8	49	30.4	24	34.8	39	12.9	34	28.6	13	26.5	21	8.6	75	29.3	5	19.2	355	23.4
Interstate for-hire	59	20.3	8	5.0	12	17.4	34	11.2	3	2.5	3	6.1	5	2.1	27	10.5	1	3.8	152	10.0
Intrastate private	57	19.7	64	39.8	23	33.3	83	27.4	50	42.0	28	57.1	39	16.0	74	28.9	1	3.8	419	27.6
Intrastate for-hire	22	7.6	6	3.7	3	4.3	82	27.1	5	4.2	2	4.1	5	2.1	42	16.4	0	0.0	167	11.0
Personal use only	2	0.7	7	4.3	0	0.0	0	0.0	0	0.0	0	0.0	150	61.7	0	0.0	0	0.0	159	10.5
Government owned	4	1.4	5	3.1	2	2.9	37	12.2	22	18.5	0	0.0	3	1.2	13	5.1	0	0.0	86	5.7
Daily rental	25	8.6	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	3.8	27	1.8
Unknown	26	9.0	21	13.0	5	7.2	28	9.2	5	4.2	3	6.1	20	8.2	25	9.8	18	69.2	151	10.0
Total	290	100.0	161	100.0	69	100.0	303	100.0	119	100.0	49	100.0	243	100.0	256	100.0	26	100.0	1516	100.0

* Note: The Other category includes nine pole/logging trucks and nine auto carriers.

Table 5-7
Fatal Truck Involvements by Trip Type and Cargo Body Style – Straight Trucks

Trip type	Van		Flatbed		Tank		Dump		Refuse		Concrete mixer		Pickup		Other*		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Local	129	44.5	114	70.8	44	63.8	255	84.2	103	86.6	45	91.8	59	24.3	187	73.0	2	7.7	938	61.9
51-100 miles	55	19.0	18	11.2	10	14.5	24	7.9	8	6.7	1	2.0	7	2.9	25	9.8	0	0.0	148	9.8
101-150	24	8.3	3	1.9	5	7.2	0	0.0	0	0.0	0	0.0	4	1.6	6	2.3	0	0.0	42	2.8
151-200	16	5.5	1	0.6	2	2.9	2	0.7	1	0.8	0	0.0	1	0.4	1	0.4	0	0.0	24	1.6
201-500	14	4.8	3	1.9	0	0.0	1	0.3	0	0.0	0	0.0	4	1.6	9	3.5	0	0.0	31	2.0
Over 500	12	4.1	2	1.2	1	1.4	0	0.0	1	0.8	0	0.0	3	1.2	3	1.2	0	0.0	22	1.5
Unknown over-the-road distance	2	0.7	1	0.6	1	1.4	1	0.3	0	0.0	0	0.0	0	0.0	3	1.2	0	0.0	8	0.5
Unknown	38	13.1	19	11.8	6	8.7	20	6.6	6	5.0	3	6.1	165	67.9	22	8.6	24	92.3	303	20.0
Total	290	100.0	161	100.0	69	100.0	303	100.0	119	100.0	49	100.0	243	100.0	256	100.0	26	100.0	1516	100.0

* Note: The Other category includes nine pole/logging trucks and nine auto carriers.

Table 5-8
Fatal Truck Involvements by Route Signing and Cargo Body Style – Straight Trucks

Route signing	Van		Flatbed		Tank		Dump		Refuse		Concrete mixer		Pickup		Other*		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Interstate	68	23.4	18	11.2	7	10.1	30	9.9	7	5.9	6	12.2	32	13.2	35	13.7	4	15.4	207	13.7
US highway	57	19.7	35	21.7	15	21.7	73	24.1	14	11.8	9	18.4	60	24.7	51	19.9	5	19.2	319	21.0
State highway	97	33.4	66	41.0	24	34.8	104	34.3	38	31.9	13	26.5	74	30.5	90	35.2	7	26.9	513	33.8
County road	18	6.2	15	9.3	18	26.1	50	16.5	21	17.6	8	16.3	35	14.4	42	16.4	3	11.5	210	13.9
Township	10	3.4	4	2.5	1	1.4	7	2.3	6	5.0	1	2.0	9	3.7	3	1.2	0	0.0	41	2.7
Municipality	36	12.4	11	6.8	3	4.3	28	9.2	29	24.4	8	16.3	21	8.6	26	10.2	6	23.1	168	11.1
Frontage road	1	0.3	1	0.6	0	0.0	1	0.3	2	1.7	1	2.0	1	0.4	1	0.4	0	0.0	8	0.5
Other	3	1.0	11	6.8	1	1.4	10	3.3	1	0.8	3	6.1	10	4.1	8	3.1	1	3.8	48	3.2
Unknown	0	0.0	0	0.0	0	0.0	0	0.0	1	0.8	0	0.0	1	0.4	0	0.0	0	0.0	2	0.1
Total	290	100.0	161	100.0	69	100.0	303	100.0	119	100.0	49	100.0	243	100.0	256	100.0	26	100.0	1516	100.0

* Note: The Other category includes nine pole/logging trucks and nine auto carriers.

Table 5-9
Fatal Truck Involvements by Land Use and Cargo Body Style – Straight Trucks

Land use	Van		Flatbed		Tank		Dump		Refuse		Concrete mixer		Pickup		Other*		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Urban	139	47.9	49	30.4	18	26.1	111	36.6	69	58.0	23	46.9	78	32.1	115	44.9	15	57.7	617	40.7
Rural	150	51.7	110	68.3	51	73.9	191	63.0	50	42.0	26	53.1	164	67.5	140	54.7	11	42.3	893	58.9
Unknown	1	0.3	2	1.2	0	0.0	1	0.3	0	0.0	0	0.0	1	0.4	1	0.4	0	0.0	6	0.4
Total	290	100.0	161	100.0	69	100.0	303	100.0	119	100.0	49	100.0	243	100.0	256	100.0	26	100.0	1516	100.0

* Note: The Other category includes nine pole/logging trucks and nine auto carriers.

Table 5-10
Fatal Truck Involvements by Light Condition and Cargo Body Style – Straight Trucks

Light condition	Van		Flatbed		Tank		Dump		Refuse		Concrete mixer		Pickup		Other*		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Daylight	200	69.0	117	72.7	56	81.2	246	81.2	89	74.8	46	93.9	142	58.4	177	69.1	23	88.5	1096	72.3
Dark	49	16.9	27	16.8	8	11.6	40	13.2	10	8.4	1	2.0	64	26.3	47	18.4	2	7.7	248	16.4
Dark but lighted	25	8.6	9	5.6	4	5.8	8	2.6	8	6.7	1	2.0	27	11.1	22	8.6	1	3.8	105	6.9
Dawn	15	5.2	6	3.7	1	1.4	7	2.3	12	10.1	1	2.0	6	2.5	7	2.7	0	0.0	55	3.6
Dusk	1	0.3	2	1.2	0	0.0	2	0.7	0	0.0	0	0.0	3	1.2	1	0.4	0	0.0	9	0.6
Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4	2	0.8	0	0.0	3	0.2
Total	290	100.0	161	100.0	69	100.0	303	100.0	119	100.0	49	100.0	243	100.0	256	100.0	26	100.0	1516	100.0

* Note: The Other category includes nine pole/logging trucks and nine auto carriers.

Accident description

Table 5-11
Fatal Truck Involvements by Accident Type and Driver Injury Severity – Straight Trucks

Accident type	Fatal injury (K)		Incapacitating (A)		Non-incapacitating (B)		Complaint of pain (C)		No injury (O)		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Single vehicle</i>														
Ran off road	122	49.6	7	9.5	14	7.3	2	1.2	8	1	0	0.0	153	10.1
Hit object in road	8	3.3	3	4.1	5	2.6	1	0.6	134	16.5	5	19.2	156	10.3
<i>Same direction, same trafficway</i>														
Rear-end, truck striking	15	6.1	1	1.4	11	5.7	5	3.0	27	3.3	0	0.0	59	3.9
Rear-end, truck struck	4	1.6	3	4.1	14	7.3	14	8.4	95	11.7	9	34.6	139	9.2
Sideswipe, in other's lane	2	0.8	1	1.4	0	0.0	1	0.6	12	1.5	0	0.0	16	1.1
Sideswipe, in truck's lane	1	0.4	1	1.4	2	1.0	0	0.0	13	1.6	0	0.0	17	1.1
<i>Opposite direction, same trafficway</i>														
Head-on, in other's lane	12	4.9	5	6.8	7	3.6	3	1.8	11	1.4	0	0.0	38	2.5
Head-on, in truck's lane	12	4.9	19	25.7	39	20.2	42	25.1	74	9.1	0	0.0	186	12.3
Sideswipe, in other's lane	6	2.4	2	2.7	5	2.6	4	2.4	11	1.4	0	0.0	28	1.8
Sideswipe, in truck's lane	3	1.2	6	8.1	15	7.8	24	14.4	67	8.3	0	0.0	115	7.6
<i>Change trafficway, one vehicle turning</i>														
Truck turn across path	7	2.8	2	2.7	2	1.0	5	3.0	57	7.0	0	0.0	73	4.8
Other turn across path	2	0.8	3	4.1	18	9.3	13	7.8	74	9.1	0	0.0	110	7.3
<i>Intersecting paths, both going straight</i>														
Truck into side of other	6	2.4	4	5.4	24	12.4	20	12.0	77	9.5	1	3.8	132	8.7
Other into side of truck	6	2.4	1	1.4	7	3.6	4	2.4	13	1.6	0	0.0	31	2.0
<i>Other accident types</i>														
Truck backed into other	0	0.0	0	0.0	1	0.5	1	0.6	8	1.0	0	0.0	10	0.7
Other backed into truck	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	1	0.1
Untripped roll	23	9.3	0	0.0	4	2.1	3	1.8	2	0.2	0	0.0	32	2.1
No impact	0	0.0	0	0.0	0	0.0	0	0.0	2	0.2	0	0.0	2	0.1
Other	16	6.5	15	20.3	22	11.4	25	15.0	118	14.6	10	38.5	206	13.6
Unknown	1	0.4	1	1.4	3	1.6	0	0.0	6	0.7	1	3.8	12	0.8
Total	246	100.0	74	100.0	193	100.0	167	100.0	810	100.0	26	100.0	1516	100.0

Table 5-12
Fatal Truck Involvements by Manner of Collision and Cargo Body Style – Straight Trucks

Manner of collision	Van		Flatbed		Tank		Dump		Refuse		Concrete mixer		Pickup		Other*		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Not applicable	65	22.4	31	19.3	23	33.3	67	22.1	49	41.2	16	32.7	75	30.9	68	26.6	6	23.1	400	26.4
Rear-end	57	19.7	29	18.0	7	10.1	59	19.5	20	16.8	8	16.3	26	10.7	41	16.0	7	26.9	254	16.8
Head-on	64	22.1	33	20.5	12	17.4	46	15.2	13	10.9	11	22.4	45	18.5	43	16.8	3	11.5	270	17.8
Front-to-side: same direction	7	2.4	5	3.1	1	1.4	12	4.0	3	2.5	2	4.1	4	1.6	5	2.0	3	11.5	42	2.8
Front-to-side: opposite direction	19	6.6	15	9.3	6	8.7	25	8.3	7	5.9	3	6.1	31	12.8	24	9.4	1	3.8	131	8.6
Front-to-side, right angle	54	18.6	38	23.6	17	24.6	72	23.8	22	18.5	8	16.3	51	21.0	55	21.5	5	19.2	322	21.2
Front-to-side/Angle: unknown direction	2	0.7	0	0.0	1	1.4	1	0.3	0	0.0	0	0.0	2	0.8	1	0.4	0	0.0	7	0.5
Sideswipe: same direction	13	4.5	4	2.5	0	0.0	8	2.6	1	0.8	1	2.0	4	1.6	4	1.6	1	3.8	36	2.4
Sideswipe: opposite direction	8	2.8	5	3.1	1	1.4	11	3.6	2	1.7	0	0.0	4	1.6	11	4.3	0	0.0	42	2.8
Rear-to-side	0	0.0	0	0.0	0	0.0	2	0.7	1	0.8	0	0.0	0	0.0	2	0.8	0	0.0	5	0.3
Other (end-swipes and others)	1	0.3	1	0.6	1	1.4	0	0.0	1	0.8	0	0.0	1	0.4	2	0.8	0	0.0	7	0.5
Total	290	100.0	161	100.0	69	100.0	303	100.0	119	100.0	49	100.0	243	100.0	256	100.0	26	100.0	1516	100.0

* Note: The Other category includes nine pole/logging trucks and nine auto carriers.

Table 5-13
Fatal Truck Involvements by Driver Injury Severity and Cargo Body Style – Straight Trucks

Driver injury severity	Van		Flatbed		Tank		Dump		Refuse		Concrete mixer		Pickup		Other*		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Fatal injury (K)	42	14.5	27	16.8	21	30.4	37	12.2	11	9.2	7	14.3	53	21.8	44	17.2	4	15.4	246	16.2
Incapacitating (A)	14	4.8	14	8.7	2	2.9	9	3.0	6	5.0	2	4.1	16	6.6	10	3.9	1	3.8	74	4.9
Non-incapacitating (B)	43	14.8	23	14.3	8	11.6	31	10.2	7	5.9	10	20.4	42	17.3	26	10.2	3	11.5	193	12.7
Complaint of pain (C)	34	11.7	21	13.0	6	8.7	34	11.2	8	6.7	4	8.2	31	12.8	26	10.2	3	11.5	167	11.0
No injury (O)	154	53.1	74	46.0	31	44.9	190	62.7	78	65.5	24	49.0	100	41.2	144	56.3	15	57.7	810	53.4
Unknown	3	1.0	2	1.2	1	1.4	2	0.7	9	7.6	2	4.1	1	0.4	6	2.3	0	0.0	26	1.7
Total	290	100.0	161	100.0	69	100.0	303	100.0	119	100.0	49	100.0	243	100.0	256	100.0	26	100.0	1516	100.0

* Note: The Other category includes nine pole/logging trucks and nine auto carriers.

Table 5-14
Fatal Truck Involvements by Driver Injury Severity and Rollover, Fire, Ejection Status – Straight Trucks

Fire, rollover, and ejection	Fatal injury (K)		Incapacitating (A)		Non-incapacitating (B)		Complaint of pain (C)		No injury (O)		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Rollover only	59	24.0	21	28.4	51	26.4	18	10.8	22	2.7	0	0.0	171	11.3
Fire only	10	4.1	1	1.4	6	3.1	6	3.6	7	0.9	0	0.0	30	2.0
Ejection only	21	8.5	2	2.7	1	0.5	0	0.0	0	0.0	0	0.0	24	1.6
Rollover and fire	9	3.7	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	10	0.7
Rollover & ejection	64	26.0	1	1.4	0	0.0	0	0.0	0	0.0	0	0.0	65	4.3
Fire & ejection	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
None	82	33.3	47	63.5	133	68.9	143	85.6	779	96.2	3	11.5	1187	78.3
Unknown	0	0.0	2	2.7	2	1.0	0	0.0	1	0.1	23	88.5	28	1.8
Total	246	100.0	74	100.0	193	100.0	167	100.0	810	100.0	26	100.0	1516	100.0

Tractors

This section provides descriptive statistics on tractor combinations involved in a fatal traffic accident in 2008. All truck configurations in which the power unit is a truck-tractor are included in this section. A tractor is a truck power unit with a fifth-wheel designed to pull semitrailers. Tractor configurations include tractors pulling no trailers (bobtail), tractors pulling one or more semitrailers, and other configurations with supplementary units such as jeeps that permit hauling very heavy loads or configurations in which the tractor towed other tractors by means of saddlemounts. Most tables cover all tractor combinations, but some are limited to tractor-semitrailers and some are limited to tractors with two trailers (doubles).

- Truck configurations in which the power unit was a tractor accounted for 2,776 of the 4,352 trucks (63.8%) involved in a fatal accident in 2008.
- 94.2% of the power units in tractor combinations were Class 8 (over 33,000 lbs.) Gross Vehicle Weight Rating (GVWR).
- 28.0% of tractor combinations were empty at the time of the accident; while the most common cargo was general freight with 27.1% of tractor involvements.
- 89.0% of tractor-semitrailer configurations consisted of a three-axle tractor pulling a two-axle trailer. 49.3% of doubles (two trailers) consisted of a two-axle tractor with a one-axle first trailer and a two-axle second trailer.
- 68.9% of tractor combinations were operated by for-hire, interstate carriers; 12.4% of tractors were operated by private, interstate carriers.
- 22.6% of tractor combinations were on a local trip (within 50 miles of base) at the time of the accident; 18.8% were on a trip over 500 miles.
- 387 tractor drivers were fatally injured in a traffic accident; 56.3% of the fatalities occurred in single vehicle crashes; 4.9% involved hitting an object in the road, while 51.4% were ran-off-road crashes.

Configuration

Table 6-1
Fatal Truck Involvements by Tractor Configuration

Configuration	N	%
<i>Tractor, no trailers</i>		
Bobtail tractor	68	2.4
Tractor carrying cargo	11	0.4
<i>Subtotal</i>	79	2.8
<i>Tractor, 1 trailer</i>		
Tractor and semitrailer	2547	91.8
Tractor + other (nonsemitrailer)	8	0.3
<i>Subtotal</i>	2555	92.0
<i>Tractor, 2 trailers</i>		
Double with A dolly	89	3.2
Double, B train	2	0.1
Double with unknown dolly	4	0.1
Tractor + semitrailer + full trailer	38	1.4
Tractor + semitrailer + unknown	3	0.1
<i>Subtotal</i>	136	4.9
<i>Tractor, 3 trailers</i>		
Triple with A dollies	1	0.0
<i>Subtotal</i>	1	0.0
<i>Other tractor combinations</i>		
Tractor + jeep + semitrailer + other	1	0.0
Tractor + semitrailer + jeep	1	0.0
Tractor + saddle mount tractor	2	0.1
Tractor + 3 saddle mount tractors	1	0.0
<i>Subtotal</i>	5	0.2
<i>Total tractors</i>	2776	100.0

Table 6-2
Fatal Truck Involvements by Cargo Body Style and Truck Configuration – Tractor Combinations

Cargo body style	Tractor, no trailers		Tractor, 1 trailer		Tractor, 2 trailers		Tractor, 3 trailers		Other tractor combinations		Total	
	N	%	N	%	N	%	N	%	N	%	N	%
Tractor/no trailers	79	100.0	0	0.0	0	0.0	0	0.0	0	0.0	79	2.8
Van	0	0.0	1022	40.0	81	59.6	0	0.0	0	0.0	1103	39.7
Open top van	0	0.0	29	1.1	1	0.7	0	0.0	0	0.0	30	1.1
Refrigerated van	0	0.0	335	13.1	3	2.2	1	100.0	0	0.0	339	12.2
Livestock carrier	0	0.0	26	1.0	0	0.0	0	0.0	0	0.0	26	0.9
Flatbed	0	0.0	326	12.8	11	8.1	0	0.0	0	0.0	337	12.1
Lowboy	0	0.0	44	1.7	0	0.0	0	0.0	1	20.0	45	1.6
Flatbed with equipment	0	0.0	4	0.2	2	1.5	0	0.0	0	0.0	6	0.2
Flatbed with sides	0	0.0	15	0.6	0	0.0	0	0.0	0	0.0	15	0.5
Pole/logging	0	0.0	96	3.8	0	0.0	0	0.0	0	0.0	96	3.5
Tank: liquid/gaseous	0	0.0	256	10.0	6	4.4	0	0.0	0	0.0	262	9.4
Tank: dry bulk	0	0.0	48	1.9	3	2.2	0	0.0	0	0.0	51	1.8
Auto carrier	0	0.0	16	0.6	0	0.0	0	0.0	0	0.0	16	0.6
Dump	0	0.0	197	7.7	5	3.7	0	0.0	0	0.0	202	7.3
Hopper bottom	0	0.0	81	3.2	19	14.0	0	0.0	0	0.0	100	3.6
Garbage/refuse	0	0.0	9	0.4	0	0.0	0	0.0	0	0.0	9	0.3
Other	0	0.0	29	1.1	5	3.7	0	0.0	4	80.0	38	1.4
Unknown	0	0.0	22	0.9	0	0.0	0	0.0	0	0.0	22	0.8
Total	79	100.0	2555	100.0	136	100.0	1	100.0	5	100.0	2776	100.0

**Table 6-3
Fatal Truck Involvements by Cargo Type and Truck Configuration – Tractor Combinations**

Cargo type	Tractor, no trailers		Tractor, 1 trailer		Tractor, 2 trailers		Tractor, 3 trailers		Other tractor combinations		Total	
	N	%	N	%	N	%	N	%	N	%	N	%
Empty/bobtail	68	86.1	680	26.6	29	21.3	0	0.0	0	0.0	777	28.0
General freight	0	0.0	686	26.8	66	48.5	0	0.0	0	0.0	752	27.1
Household goods	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	8	0.3
Building materials	0	0.0	42	1.6	0	0.0	0	0.0	0	0.0	42	1.5
Metal (coils, sheets)	0	0.0	70	2.7	0	0.0	0	0.0	0	0.0	70	2.5
Heavy machinery	0	0.0	53	2.1	0	0.0	0	0.0	1	20.0	54	1.9
Large objects	0	0.0	39	1.5	1	0.7	0	0.0	1	20.0	41	1.5
Motor vehicles	0	0.0	11	0.4	0	0.0	0	0.0	0	0.0	11	0.4
Piggyback/towaway	11	13.9	1	0.0	0	0.0	0	0.0	0	0.0	12	0.4
Gases in bulk	0	0.0	13	0.5	2	1.5	0	0.0	0	0.0	15	0.5
Solids in bulk	0	0.0	252	9.9	21	15.4	0	0.0	0	0.0	273	9.8
Liquids in bulk	0	0.0	139	5.4	1	0.7	0	0.0	0	0.0	140	5.0
Logs/poles/lumber	0	0.0	98	3.8	0	0.0	0	0.0	0	0.0	98	3.5
Refrigerated foods	0	0.0	223	8.7	3	2.2	1	100.0	0	0.0	227	8.2
Mobile home	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.1
Farm products	0	0.0	27	1.1	6	4.4	0	0.0	0	0.0	33	1.2
Live animals	0	0.0	19	0.7	0	0.0	0	0.0	0	0.0	19	0.7
Other	0	0.0	7	0.3	0	0.0	0	0.0	0	0.0	7	0.3
Not for cargo	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.1
Cargo, unknown type	0	0.0	37	1.4	1	0.7	0	0.0	0	0.0	38	1.4
Saddlemount tractor	0	0.0	0	0.0	0	0.0	0	0.0	3	60.0	3	0.1
Unknown	0	0.0	146	5.7	6	4.4	0	0.0	0	0.0	152	5.5
Total	79	100.0	2555	100.0	136	100.0	1	100.0	5	100.0	2776	100.0

Table 6-4
Fatal Truck Involvements by Cargo Type and Cargo Body Style – Tractor Combinations

Cargo type	Tractor/ no trailers		Van		Open top van		Refrigerated van		Livestock carrier		Flatbed		Lowboy		Flatbed with equipment		Flatbed with sides		Pole/logging	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Empty/bobtail	68	86.1	216	19.6	14	46.7	55	16.2	13	50.0	92	27.3	15	33.3	3	50.0	3	20.0	32	33.3
General freight	0	0.0	683	61.9	0	0.0	39	11.5	0	0.0	25	7.4	1	2.2	0	0.0	1	6.7	0	0.0
Household goods	0	0.0	8	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Building materials	0	0.0	12	1.1	0	0.0	0	0.0	0	0.0	29	8.6	1	2.2	0	0.0	0	0.0	0	0.0
Metal (coils, sheets)	0	0.0	8	0.7	0	0.0	0	0.0	0	0.0	55	16.3	1	2.2	0	0.0	5	33.3	0	0.0
Heavy machinery	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0	28	8.3	23	51.1	0	0.0	0	0.0	0	0.0
Large objects	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0	32	9.5	2	4.4	1	16.7	1	6.7	1	1.0
Motor vehicles	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0
Piggyback/towaway	11	13.9	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0
Gases in bulk	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Solids in bulk	0	0.0	43	3.9	14	46.7	5	1.5	0	0.0	3	0.9	1	2.2	2	33.3	0	0.0	0	0.0
Liquids in bulk	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Logs/poles/lumber	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0	32	9.5	0	0.0	0	0.0	2	13.3	61	63.5
Refrigerated foods	0	0.0	2	0.2	0	0.0	225	66.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Mobile home	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Farm products	0	0.0	4	0.4	2	6.7	4	1.2	0	0.0	12	3.6	1	2.2	0	0.0	2	13.3	0	0.0
Live animals	0	0.0	0	0.0	0	0.0	0	0.0	13	50.0	5	1.5	0	0.0	0	0.0	1	6.7	0	0.0
Other	0	0.0	3	0.3	0	0.0	0	0.0	0	0.0	2	0.6	0	0.0	0	0.0	0	0.0	0	0.0
Not for cargo	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cargo, unknown type	0	0.0	33	3.0	0	0.0	2	0.6	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0
Saddlemount tractor	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Unknown	0	0.0	85	7.7	0	0.0	9	2.7	0	0.0	19	5.6	0	0.0	0	0.0	0	0.0	2	2.1
Total	79	100.0	1103	100.0	30	100.0	339	100.0	26	100.0	337	100.0	45	100.0	6	100.0	15	100.0	96	100.0

Table 6-4 (continued)

Cargo type	Tank liquid/gas		Tank dry bulk		Auto carrier		Dump		Hopper bottom		Garbage/ refuse		Other		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Empty/bobtail	103	39.3	13	25.5	4	25.0	89	44.1	40	40.0	4	44.4	13	34.2	0	0.0	777	28.0
General freight	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	5.3	1	4.5	752	27.1
Household goods	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8	0.3
Building materials	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	42	1.5
Metal (coils, sheets)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.6	0	0.0	70	2.5
Heavy machinery	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.6	0	0.0	54	1.9
Large objects	0	0.0	0	0.0	0	0.0	1	0.5	0	0.0	0	0.0	1	2.6	0	0.0	41	1.5
Motor vehicles	0	0.0	0	0.0	10	62.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	11	0.4
Piggyback/towaway	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	12	0.4
Gases in bulk	15	5.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	15	0.5
Solids in bulk	0	0.0	33	64.7	0	0.0	105	52.0	55	55.0	5	55.6	6	15.8	1	4.5	273	9.8
Liquids in bulk	139	53.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.6	0	0.0	140	5.0
Logs/poles/lumber	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.6	0	0.0	98	3.5
Refrigerated foods	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	227	8.2
Mobile home	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.6	1	4.5	2	0.1
Farm products	0	0.0	0	0.0	0	0.0	1	0.5	3	3.0	0	0.0	4	10.5	0	0.0	33	1.2
Live animals	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	19	0.7
Other	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	5.3	0	0.0	7	0.3
Not for cargo	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	5.3	0	0.0	2	0.1
Cargo, unknown type	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	9.1	38	1.4
Saddlemount tractor	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	7.9	0	0.0	3	0.1
Unknown	5	1.9	5	9.8	2	12.5	6	3.0	2	2.0	0	0.0	0	0.0	17	77.3	152	5.5
Total	262	100.0	51	100.0	16	100.0	202	100.0	100	100.0	9	100.0	38	100.0	22	100.0	2776	100.0

**Table 6-5
Fatal Truck Involvements by Cargo Type and Cargo Body Style Groups – Tractor Combinations**

Cargo type	Van		Flatbed		Tank		Dump		Livestock		Pole/logging		Other*		None/ unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Empty/bobtail	285	19.4	113	28.0	116	37.1	129	42.7	13	50.0	32	33.3	21	33.3	68	67.3	777	28.0
General freight	722	49.0	27	6.7	0	0.0	0	0.0	0	0.0	0	0.0	2	3.2	1	1.0	752	27.1
Household goods	8	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8	0.3
Building materials	12	0.8	30	7.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	42	1.5
Metal (coils, sheets)	8	0.5	61	15.1	0	0.0	0	0.0	0	0.0	0	0.0	1	1.6	0	0.0	70	2.5
Heavy machinery	2	0.1	51	12.7	0	0.0	0	0.0	0	0.0	0	0.0	1	1.6	0	0.0	54	1.9
Large objects	2	0.1	36	8.9	0	0.0	1	0.3	0	0.0	1	1.0	1	1.6	0	0.0	41	1.5
Motor vehicles	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	10	15.9	0	0.0	11	0.4
Piggyback/towaway	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	11	10.9	12	0.4
Gases in bulk	0	0.0	0	0.0	15	4.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	15	0.5
Solids in bulk	62	4.2	6	1.5	33	10.5	160	53.0	0	0.0	0	0.0	11	17.5	1	1.0	273	9.8
Liquids in bulk	0	0.0	0	0.0	139	44.4	0	0.0	0	0.0	0	0.0	1	1.6	0	0.0	140	5.0
Logs/poles/lumber	2	0.1	34	8.4	0	0.0	0	0.0	0	0.0	61	63.5	1	1.6	0	0.0	98	3.5
Refrigerated foods	227	15.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	227	8.2
Mobile home	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.6	1	1.0	2	0.1
Farm products	10	0.7	15	3.7	0	0.0	4	1.3	0	0.0	0	0.0	4	6.3	0	0.0	33	1.2
Live animals	0	0.0	6	1.5	0	0.0	0	0.0	13	50.0	0	0.0	0	0.0	0	0.0	19	0.7
Other	3	0.2	2	0.5	0	0.0	0	0.0	0	0.0	0	0.0	2	3.2	0	0.0	7	0.3
Not for cargo	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	3.2	0	0.0	2	0.1
Cargo, unknown type	35	2.4	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	2.0	38	1.4
Saddlemount tractor	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	4.8	0	0.0	3	0.1
Unknown	94	6.4	19	4.7	10	3.2	8	2.6	0	0.0	2	2.1	2	3.2	17	16.8	152	5.5
Total	1472	100.0	403	100.0	313	100.0	302	100.0	26	100.0	96	100.0	63	100.0	101	100.0	2776	100.0

* The Other category includes sixteen auto carriers and nine refuse trucks.

**Table 6-6
Fatal Truck Involvements by Gross Vehicle Weight Rating and Truck Configuration – Tractor Combinations**

Gross vehicle weight rating (lbs)	Tractor, no trailers		Tractor, 1 trailer		Tractor, 2 trailers		Tractor, 3 trailers		Other tractor combinations		Total	
	N	%	N	%	N	%	N	%	N	%	N	%
Class 5: 16,000-19,500	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	1	0.0
Class 6: 19,501-26,000	1	1.3	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Class 7: 26,001-33,000	3	3.8	90	3.5	51	37.5	0	0.0	0	0.0	144	5.2
Class 8: 33,001+	75	94.9	2450	95.9	83	61.0	1	100.0	5	100.0	2614	94.2
Unknown	0	0.0	13	0.5	1	0.7	0	0.0	0	0.0	14	0.5
Total	79	100.0	2555	100.0	136	100.0	1	100.0	5	100.0	2776	100.0

Note: Gross Vehicle Weight Rating (GVWR) pertains to the power unit.

Table 6-7
Fatal Truck Involvements by Gross Vehicle Weight Rating and Cargo Body Style – Tractor Combinations

Gross vehicle weight rating (lbs)	Van		Flatbed		Tank		Dump		Livestock		Pole/logging		Other*		None/unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Class 5: 16,001-19,500	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Class 6: 19,501-26,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	3.2	1	1.0	3	0.1
Class 7: 26,001-33,000	123	8.4	7	1.7	1	0.3	5	1.7	0	0.0	0	0.0	5	7.9	3	3.0	144	5.2
Class 8: 33,001+	1342	91.2	394	97.8	312	99.7	297	98.3	26	100.0	96	100.0	56	88.9	91	90.1	2614	94.2
Unknown	6	0.4	2	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	5.9	14	0.5
Total	1472	100.0	403	100.0	313	100.0	302	100.0	26	100.0	96	100.0	63	100.0	101	100.0	2776	100.0

* The Other category includes sixteen auto carriers and nine refuse trucks.
 Gross Vehicle Weight Rating (GVWR) pertains to the power unit.

Table 6-8A
Fatal Truck Involvements by Axle Combinations – Tractors, No Trailers

Power unit axles	N	%
2	3	3.8
3	76	96.2
Total	79	100.0

Table 6-8B
Fatal Truck Involvements by Axle Combinations – TRACTOR-SEMITRAILERS

Power unit axles	First trailer axles	N	%
2	1	24	0.9
2	2	79	3.1
2	3	2	0.1
3	1	1	0.0
3	2	2267	89.0
3	3	72	2.8
3	4	14	0.5
3	5	3	0.1
3	6	1	0.0
3	8	1	0.0
4	2	10	0.4
4	3	7	0.3
4	4	6	0.2
Unknown		60	2.4
Total		2547	100.0

Table 6-8C
Fatal Truck Involvements by Axle Combinations – DOUBLES

Power unit axles	First trailer axles	Second trailer axles	N	%
2	1	2	67	49.3
2	2	2	1	0.7
3	1	2	39	28.7
3	2	1	1	0.7
3	2	2	12	8.8
3	2	3	3	2.2
3	2	4	2	1.5
3	3	2	2	1.5
3	3	3	1	0.7
3	3	5	1	0.7
3	4	3	1	0.7
3	4	4	1	0.7
4	2	3	1	0.7
Unknown			4	2.9
Total			136	100.0

Vehicle use

Table 6-9
Fatal Truck Involvements by Carrier Type and Truck Configuration – Tractor Combinations

Carrier type	Tractor, no trailers		Tractor, 1 trailer		Tractor, 2 trailers		Tractor, 3 trailers		Other tractor combinations		Total	
	N	%	N	%	N	%	N	%	N	%	N	%
Interstate private	16	20.3	321	12.6	5	3.7	1	100.0	0	0.0	343	12.4
Interstate for-hire	41	51.9	1764	69.0	104	76.5	0	0.0	5	100.0	1914	68.9
Intrastate private	4	5.1	144	5.6	5	3.7	0	0.0	0	0.0	153	5.5
Intrastate for-hire	14	17.7	174	6.8	21	15.4	0	0.0	0	0.0	209	7.5
Government owned	1	1.3	13	0.5	0	0.0	0	0.0	0	0.0	14	0.5
Unknown	3	3.8	139	5.4	1	0.7	0	0.0	0	0.0	143	5.2
Total	79	100.0	2555	100.0	136	100.0	1	100.0	5	100.0	2776	100.0

Table 6-10
Fatal Truck Involvements by Carrier Type and Cargo Body Style – Tractor Combinations

Carrier type	Van		Flatbed		Tank		Dump		Livestock		Pole/logging		Other*		None/unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Interstate private	150	10.2	67	16.6	52	16.6	26	8.6	5	19.2	13	13.5	13	20.6	17	16.8	343	12.4
Interstate for-hire	1193	81.0	251	62.3	197	62.9	150	49.7	19	73.1	33	34.4	26	41.3	45	44.6	1914	68.9
Intrastate private	35	2.4	32	7.9	17	5.4	40	13.2	0	0.0	12	12.5	11	17.5	6	5.9	153	5.5
Intrastate for-hire	32	2.2	24	6.0	36	11.5	65	21.5	1	3.8	26	27.1	10	15.9	15	14.9	209	7.5
Government owned	3	0.2	4	1.0	1	0.3	4	1.3	0	0.0	0	0.0	1	1.6	1	1.0	14	0.5
Unknown	59	4.0	25	6.2	10	3.2	17	5.6	1	3.8	12	12.5	2	3.2	17	16.8	143	5.2
Total	1472	100.0	403	100.0	313	100.0	302	100.0	26	100.0	96	100.0	63	100.0	101	100.0	2776	100.0

* The Other category includes sixteen auto carriers and nine refuse trucks.

Table 6-11
Fatal Truck Involvements by Trip Type and Cargo Body Style – Tractor Combinations

Trip type	Van		Flatbed		Tank		Dump		Livestock		Pole/logging		Other*		None/ unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Local	166	11.3	77	19.1	108	34.5	155	51.3	3	11.5	59	61.5	25	39.7	34	33.7	627	22.6
51-100 miles	114	7.7	61	15.1	60	19.2	68	22.5	2	7.7	14	14.6	7	11.1	13	12.9	339	12.2
101-150	84	5.7	25	6.2	26	8.3	25	8.3	3	11.5	2	2.1	2	3.2	2	2.0	169	6.1
151-200	93	6.3	20	5.0	30	9.6	11	3.6	3	11.5	2	2.1	5	7.9	1	1.0	165	5.9
201-500	309	21.0	75	18.6	37	11.8	20	6.6	10	38.5	3	3.1	11	17.5	9	8.9	474	17.1
Over 500	422	28.7	63	15.6	19	6.1	2	0.7	4	15.4	0	0.0	6	9.5	7	6.9	523	18.8
Unknown over-the-road distance	87	5.9	16	4.0	6	1.9	3	1.0	0	0.0	1	1.0	0	0.0	0	0.0	113	4.1
Unknown	197	13.4	66	16.4	27	8.6	18	6.0	1	3.8	15	15.6	7	11.1	35	34.7	366	13.2
Total	1472	100.0	403	100.0	313	100.0	302	100.0	26	100.0	96	100.0	63	100.0	101	100.0	2776	100.0

* The Other category includes sixteen auto carriers and nine refuse trucks.

Table 6-12
Fatal Truck Involvements by Route Signing and Cargo Body Style – Tractor Combinations

Route signing	Van		Flatbed		Tank		Dump		Livestock		Pole/logging		Other*		None/ unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Interstate	691	46.9	119	29.5	74	23.6	26	8.6	1	3.8	6	6.3	13	20.6	20	19.8	950	34.2
US highway	350	23.8	113	28.0	74	23.6	86	28.5	14	53.8	30	31.3	19	30.2	18	17.8	704	25.4
State highway	305	20.7	103	25.6	102	32.6	130	43.0	10	38.5	42	43.8	22	34.9	37	36.6	751	27.1
County road	48	3.3	38	9.4	26	8.3	34	11.3	1	3.8	12	12.5	6	9.5	11	10.9	176	6.3
Township	10	0.7	3	0.7	4	1.3	3	1.0	0	0.0	0	0.0	1	1.6	2	2.0	23	0.8
Municipality	52	3.5	11	2.7	15	4.8	9	3.0	0	0.0	5	5.2	2	3.2	11	10.9	105	3.8
Frontage road	8	0.5	5	1.2	1	0.3	2	0.7	0	0.0	0	0.0	0	0.0	0	0.0	16	0.6
Other	8	0.5	10	2.5	17	5.4	12	4.0	0	0.0	1	1.0	0	0.0	2	2.0	50	1.8
Unknown	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Total	1472	100.0	403	100.0	313	100.0	302	100.0	26	100.0	96	100.0	63	100.0	101	100.0	2776	100.0

* The Other category includes sixteen auto carriers and nine refuse trucks.

Table 6-13
Fatal Truck Involvements by Land Use and Cargo Body Style – Tractor Combinations

Land use	Van		Flatbed		Tank		Dump		Livestock		Pole/logging		Other*		None/ unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Urban	524	35.6	116	28.8	99	31.6	71	23.5	4	15.4	16	16.7	19	30.2	40	39.6	889	32.0
Rural	941	63.9	286	71.0	211	67.4	231	76.5	22	84.6	79	82.3	44	69.8	60	59.4	1874	67.5
Unknown	7	0.5	1	0.2	3	1.0	0	0.0	0	0.0	1	1.0	0	0.0	1	1.0	13	0.5
Total	1472	100.0	403	100.0	313	100.0	302	100.0	26	100.0	96	100.0	63	100.0	101	100.0	2776	100.0

* The Other category includes sixteen auto carriers and nine refuse trucks.

Table 6-14
Fatal Truck Involvements by Light Condition and Cargo Body Style – Tractor Combinations

Light condition	Van		Flatbed		Tank		Dump		Livestock		Pole/logging		Other*		None/ unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Daylight	761	51.7	261	64.8	196	62.6	240	79.5	17	65.4	75	78.1	38	60.3	62	61.4	1650	59.4
Dark	475	32.3	93	23.1	81	25.9	43	14.2	7	26.9	15	15.6	14	22.2	22	21.8	750	27.0
Dark but lighted	177	12.0	32	7.9	28	8.9	9	3.0	2	7.7	1	1.0	7	11.1	14	13.9	270	9.7
Dawn	36	2.4	10	2.5	5	1.6	7	2.3	0	0.0	5	5.2	2	3.2	2	2.0	67	2.4
Dusk	22	1.5	6	1.5	3	1.0	3	1.0	0	0.0	0	0.0	2	3.2	1	1.0	37	1.3
Unknown	1	0.1	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
Total	1472	100.0	403	100.0	313	100.0	302	100.0	26	100.0	96	100.0	63	100.0	101	100.0	2776	100.0

* The Other category includes sixteen auto carriers and nine refuse trucks.

Accident description

Table 6-15
Fatal Truck Involvements by Manner of Collision and Cargo Body Style – Tractor Combinations

Manner of collision	Van		Flatbed		Tank		Dump		Livestock		Pole/logging		Other*		None/ unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Not applicable	338	23.0	72	17.9	79	25.2	43	14.2	3	11.5	18	18.8	17	27.0	29	28.7	599	21.6
Rear-end	352	23.9	97	24.1	50	16.0	53	17.5	5	19.2	25	26.0	10	15.9	9	8.9	601	21.6
Head-on	198	13.5	63	15.6	46	14.7	72	23.8	4	15.4	11	11.5	5	7.9	15	14.9	414	14.9
Front-to-side: same direction	52	3.5	15	3.7	9	2.9	7	2.3	0	0.0	3	3.1	1	1.6	3	3.0	90	3.2
Front-to-side: opposite direction	132	9.0	37	9.2	37	11.8	23	7.6	1	3.8	9	9.4	6	9.5	7	6.9	252	9.1
Front-to-side, right angle	270	18.3	76	18.9	59	18.8	76	25.2	13	50.0	23	24.0	14	22.2	28	27.7	559	20.1
Front-to-side angle, unknown direction	7	0.5	2	0.5	2	0.6	3	1.0	0	0.0	0	0.0	1	1.6	2	2.0	17	0.6
Sideswipe: same direction	53	3.6	16	4.0	12	3.8	5	1.7	0	0.0	3	3.1	4	6.3	3	3.0	96	3.5
Sideswipe: opposite direction	43	2.9	17	4.2	14	4.5	14	4.6	0	0.0	3	3.1	4	6.3	4	4.0	99	3.6
Rear-to-side	4	0.3	1	0.2	0	0.0	2	0.7	0	0.0	0	0.0	0	0.0	1	1.0	8	0.3
Other	18	1.2	5	1.2	4	1.3	3	1.0	0	0.0	0	0.0	1	1.6	0	0.0	31	1.1
Unknown	5	0.3	2	0.5	1	0.3	1	0.3	0	0.0	1	1.0	0	0.0	0	0.0	10	0.4
Total	1472	100.0	403	100.0	313	100.0	302	100.0	26	100.0	96	100.0	63	100.0	101	100.0	2776	100.0

* The Other category includes sixteen auto carriers and nine refuse trucks.

Table 6-16
Fatal Truck Involvements by Accident Type and Driver Injury Severity – Tractor Combinations

Accident type	Fatal injury (K)		Incapacitating (A)		Non-incapacitating (B)		Complaint of pain (C)		Injured, severity unknown		No injury (O)		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Single vehicle</i>																
Ran off road	199	51.4	5	4.9	8	3.1	2	0.7	0	0.0	11	0.6	0	0.0	225	8.1
Hit object in road	19	4.9	1	1.0	3	1.2	5	1.8	0	0.0	180	10.4	6	21.4	214	7.7
<i>Same direction, same trafficway</i>																
Rearend, truck striking	60	15.5	14	13.6	17	6.6	16	5.8	1	33.3	92	5.3	0	0.0	200	7.2
Rearend, truck struck	0	0.0	1	1.0	18	7.0	31	11.3	0	0.0	215	12.5	7	25.0	272	9.8
Sideswipe, in other's lane	4	1.0	0	0.0	4	1.6	1	0.4	0	0.0	15	0.9	0	0.0	24	0.9
Sideswipe, in truck's lane	5	1.3	2	1.9	3	1.2	5	1.8	0	0.0	55	3.2	1	3.6	71	2.6
<i>Opposite direction, same trafficway</i>																
Head-on, in other's lane	5	1.3	4	3.9	4	1.6	7	2.6	0	0.0	12	0.7	0	0.0	32	1.2
Head-on, in truck's lane	8	2.1	28	27.2	61	23.6	54	19.7	1	33.3	141	8.2	0	0.0	293	10.6
Sideswipe, in other's lane	8	2.1	3	2.9	4	1.6	2	0.7	0	0.0	13	0.8	0	0.0	30	1.1
Sideswipe, in truck's lane	6	1.6	10	9.7	29	11.2	30	10.9	0	0.0	217	12.6	0	0.0	292	10.5
<i>Change trafficway, one vehicle turning</i>																
Truck turn across path	1	0.3	0	0.0	4	1.6	8	2.9	0	0.0	98	5.7	0	0.0	111	4.0
Other turn across path	6	1.6	6	5.8	17	6.6	25	9.1	0	0.0	90	5.2	0	0.0	144	5.2
<i>Intersecting paths, both going straight</i>																
Truck into side of other	3	0.8	9	8.7	36	14.0	27	9.9	0	0.0	127	7.4	0	0.0	202	7.3
Other into side of truck	1	0.3	1	1.0	4	1.6	8	2.9	0	0.0	75	4.4	0	0.0	89	3.2
<i>Other accident types</i>																
Truck backed into other	0	0.0	0	0.0	0	0.0	2	0.7	0	0.0	12	0.7	0	0.0	14	0.5
Other backed into truck	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	2	0.1
Untripped roll	36	9.3	2	1.9	4	1.6	5	1.8	0	0.0	4	0.2	0	0.0	51	1.8
No impact	1	0.3	1	1.0	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	3	0.1
Other	21	5.4	16	15.5	41	15.9	46	16.8	0	0.0	341	19.8	14	50.0	479	17.3
Unknown	4	1.0	0	0.0	1	0.4	0	0.0	1	33.3	22	1.3	0	0.0	28	1.0
Total	387	100.0	103	100.0	258	100.0	274	100.0	3	100.0	1723	100.0	28	100.0	2776	100.0

Table 6-17
Fatal Truck Involvements by Driver Injury Severity and Cargo Body Style – Tractor Combinations

Driver injury severity	Van		Flatbed		Tank		Dump		Livestock		Pole/logging		Other*		None/unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Fatal injury (K)	192	13.0	52	12.9	77	24.6	34	11.3	0	0.0	14	14.6	5	7.9	13	12.9	387	13.9
Incapacitating (A)	53	3.6	14	3.5	10	3.2	16	5.3	1	3.8	4	4.2	3	4.8	2	2.0	103	3.7
Non-incapacitating (B)	131	8.9	44	10.9	23	7.3	37	12.3	2	7.7	6	6.3	5	7.9	10	9.9	258	9.3
Complaint of pain (C)	130	8.8	49	12.2	26	8.3	31	10.3	1	3.8	20	20.8	6	9.5	11	10.9	274	9.9
Injured, severity unknown	1	0.1	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	1	1.0	3	0.1
No injury (O)	954	64.8	242	60.0	172	55.0	181	59.9	22	84.6	50	52.1	44	69.8	58	57.4	1723	62.1
Unknown	11	0.7	2	0.5	4	1.3	3	1.0	0	0.0	2	2.1	0	0.0	6	5.9	28	1.0
Total	1472	100.0	403	100.0	313	100.0	302	100.0	26	100.0	96	100.0	63	100.0	101	100.0	2776	100.0

* The Other category includes sixteen auto carriers and nine refuse trucks.

Table 6-18
Fatal Truck Involvements by Driver Injury Severity and Rollover, Fire, Ejection Status – Tractor Combinations

Rollover, fire, and ejection	Fatal injury (K)		Incapacitating (A)		Non-incapacitating (B)		Complaint of pain (C)		Injured, severity unknown		No injury (O)		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Rollover only	101	26.1	21	20.4	40	15.5	31	11.3	0	0.0	45	2.6	0	0.0	238	8.6
Fire only	61	15.8	13	12.6	26	10.1	23	8.4	2	66.7	55	3.2	0	0.0	180	6.5
Ejection only	26	6.7	1	1.0	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	28	1.0
Rollover and fire	31	8.0	2	1.9	8	3.1	1	0.4	0	0.0	1	0.1	0	0.0	43	1.5
Rollover and ejection	44	11.4	2	1.9	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	47	1.7
Fire and ejection	6	1.6	1	1.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	0.3
Rollover, fire and ejection	7	1.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	0.3
None	103	26.6	60	58.3	180	69.8	217	79.2	1	33.3	1618	93.9	4	14.3	2183	78.6
Unknown	8	2.1	3	2.9	3	1.2	2	0.7	0	0.0	3	0.2	24	85.7	43	1.5
Total	387	100.0	103	100.0	258	100.0	274	100.0	3	100.0	1723	100.0	28	100.0	2776	100.0

Glossary and abbreviations

Glossary

A- dolly

An auxiliary axle assembly that attaches to a semitrailer by means of a pintle hitch at a single point. This allows the semitrailer to be used as a full trailer.

Bobtail

A tractor operating without a trailer. May also refer to a straight truck without a trailer.

B- train

A B-train is a doubles combination with a rear platform on the first trailer on which is mounted a fifth wheel to which another semitrailer may be attached.

C- dolly

A converter dolly with two drawbars that attach at two connection points to the first trailer in a doubles combination. These dollies can have one or more axles.

Cabover

A vehicle with a substantial part of its engine located under the driver's cab, so that the windshield is at the front of the vehicle. Thus, the cab sits over the engine.

CDL

Commercial Driver's License

CNTBS

Center for National Truck and Bus Statistics at the University of Michigan Transportation Research Institute (UMTRI)

Combination vehicle

A vehicle consisting of a power unit (truck or truck tractor) and one or more trailing units (such as a semitrailer).

Conventional cab

A conventional cab vehicle has the engine in front of the driver's cab.

Dolly (converter dolly)

An auxiliary axle assembly having a fifth wheel, used for the purpose of converting a semitrailer to a full trailer.

Double

A combination vehicle consisting of a tractor pulling two trailers.

Ejection

Refers to occupants being totally or partially thrown from the vehicle as a result of an impact or rollover.

Empty combination weight

The weight of the power unit and unloaded weight of the trailer(s).

FARS file

Fatality Analysis Reporting System file, compiled by the National Center for Statistics and Analysis at the National Highway Traffic Safety Administration.

Fatal involvement

The involvement of a truck in a fatal crash. The fatality does not necessarily occur in the truck.

Fifth wheel

The hitch used to attach a tractor to a semitrailer. It usually consists of a plate and latching mechanism mounted on the truck tractor (or converter dolly), into which fits a kingpin assembly mounted on the trailer.

For-hire carrier

A company that transports goods for compensation; i.e. the load-carrying capacity of the truck is for hire.

Full trailer

A trailer with axles at the front and at the rear, or along its entire length.

Gooseneck

A hitch resembling the neck of a goose; can be a fifth wheel or ball hitch attachment. Both straight trucks and tractor-trailer rigs can use gooseneck hitches.

Gross combination weight

The sum of the weight of all units of the vehicle (power unit and any trailers) and the weight of any cargo carried.

Gross vehicle weight rating (GVWR)

The maximum rated capacity of a vehicle, including the weight of the base vehicle, all added equipment, driver and cargo.

Hopper bottom

A cargo body capable of discharging its load through a bottom opening without tilting.

Injury severity

Injuries are classified according to the following categories:

K = a fatal injury

A = an incapacitating injury, other than fatal, that prevents a person from walking, driving, or normally performing the activities the person was capable of before the injury.

B = a non-capacitating injury that is visible or evident to observers at the scene of the crash.

C = a possible injury that is reported as complaint of pain, but which is neither incapacitating nor evident to observers at the scene of the crash.

O = no injury

Interstate carrier

A carrier that transports goods across state lines.

Intrastate carrier

A carrier that operates entirely within the state, and does not transport goods across state lines.

Involvement

Represents a truck involved in a fatal accident; an accident may consist of one or more truck involvements.

Jackknife

The skidding of an articulated vehicle, resulting in rotation at the articulation point so that the tractor is rotated against the trailer in a manner similar to the closing of a jackknife.

Jeep

A trailing piece of equipment similar to a dolly with its own axles, typically found in heavy haul operations. It is used to increase the cargo-carrying capacity of a combination, as well as affect weight distribution by transferring the load weight through a greater number of axles.

License endorsements

Authorizations to an individual's commercial driver's license (CDL) required to permit the individual to operate certain types of commercial motor vehicles.

Lowboy

A flatbed trailer with a low floor used for hauling heavy equipment. The deck is typically 12" off the ground.

Open top

A cargo body with sides but without a permanent top.

Other trailer

Any trailer that does not fit into the semi or full trailer type categories. Examples are tag-along equipment such as bush chippers, or trailers with axle placement in any fashion besides the traditional front and rear configuration of the full trailer.

Over-the-road

Travel from one city to another, typically greater than fifty miles, as distinct from travel in and around the vehicle's base.

Piggyback

Refers to the way empty log trailers are carried on the bed of a tractor such that no axles touch the road. Also may refer to vehicles carried on the rear of a power unit in a manner that axles do contact the road.

Power unit

A truck, or the part of a combination that houses the engine.

Private carrier

A company which maintains its own trucks to transport its own freight.

Saddlemount tractor

A configuration consisting of a truck or tractor towing one or more trucks or tractors, where the towed unit is attached to the vehicle in front of it, utilizing a saddle that is attached to the frame or fifth wheel of the leading unit. The saddle mechanism is attached to the front axle of the towed vehicle.

Semitrailer

A trailer whose front rests on the back of a tractor, coupled to the tractor by a fifth wheel and kingpin. It has no front axle.

Straight truck

A truck power unit with a permanently attached cargo body. It may or may not pull a trailer.

TIFA file

Trucks Involved in Fatal Accidents is an annual survey of medium and heavy trucks involved in a fatal accident, conducted by the Center for National Truck and Bus Statistics at the University of Michigan's Transportation Research Institute.

Tractor

A vehicle designed to pull a semitrailer, generally with no cargo capacity. It has a circular fifth wheel plate for coupling to the semitrailer at its kingpin.

Trailer

A vehicle with or without motive power, designed for carrying persons or property and for being drawn by another motor vehicle. Examples are semitrailers, full trailers and other trailers (see separate definitions).

Triple

A combination vehicle consisting of a tractor pulling three trailers.

Table of Abbreviations

Abbreviation	Definition
CDL	Commercial driver's license
Combs/oth combs	Combinations/other combinations
Convs	Convictions
Dist	Distance
Eject	Ejection
Equip	Equipment
LCV	Longer combination vehicle
Misc	Miscellaneous
Occ	Occupant
Opp	Opposite
Piggybk	Piggyback
Prev	Previous
Req	Required
Semi	Semitrailer
STAA	Surface Transportation Assistance Act
Stat	Statutory
Strt	Straight truck
Trac	Tractor
Trlrs	Trailers
Unk	Unknown
Veh	Vehicle
Viol	Violation
Wt	Weight
WO	Without
Injuries are classified according to severity under the following levels:	
K	Fatal injury
A	Incapacitating injury
B	Evident but not incapacitating
C	Complaint of pain
O	No injury

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