

TRUCKS INVOLVED IN FATAL ACCIDENTS FACTBOOK 2007



Center for National Truck and Bus Statistics
University of Michigan Transportation Research Institute
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January 2010

Center for National Truck and Bus Statistics

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Ann Arbor, Michigan 48109-2150

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16. Abstract This document presents aggregate statistics on trucks involved in traffic accidents in 2007. 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.			
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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				
in	inches	25.4	millimeters	mm	mm	millimeters	0.039	inches	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)

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Introduction

This report, *Trucks Involved in Fatal Accidents Factbook, 2007*, 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 2007 TIFA file is a census file, meaning there is one record for each of the 5,049 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, 2007*.

Report overview

This report consists of six sections. The "Trends" section provides data on fatalities and fatal accident involvements from 2003 through 2007. 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, 2003-2007

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 5,212 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 2003 to 2007.
- The number of persons killed in accidents involving a truck decreased from 5,663 in 2004 to 5,248 in 2007.
- The number of truck drivers killed in traffic accidents increased from 700 in 2003 to 796 in 2007.
- An average of 368 pedestrians and 83 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
2003	1499	218	87	3005	157	38	100	5104
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
Total	7914	1153	497	15331	816	165	183	26059

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

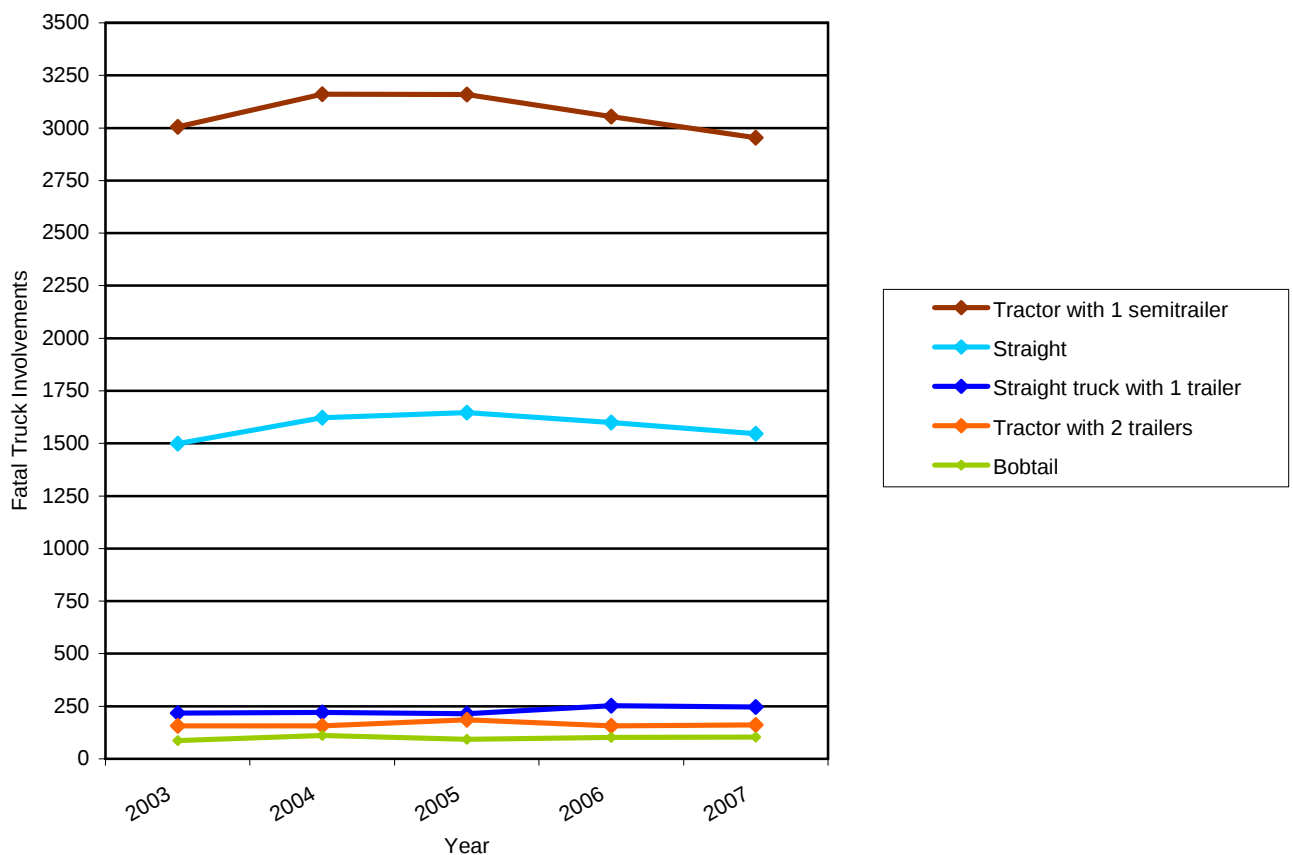


Table 1-2
Fatal Truck Involvements by Year and All Truck Configurations

Configuration	2003	2004	2005	2006	2007	Total
	N	N	N	N	N	N
Straight only	1499	1622	1647	1600	1546	7914
Straight + full trailer	37	41	38	40	43	199
Straight + other	122	138	129	164	139	692
Straight + gooseneck hitch + other	59	42	48	48	65	262
Wrecker + tow	19	11	11	5	8	54
Straight, unknown if trailer	4	11	5	10	2	32
Straight + 2 full trailers	0	0	1	0	0	1
Straight + other (gooseneck) + other	0	1	0	0	0	1
Bobtail tractor	83	98	90	95	94	460
Tractor carrying cargo	4	13	3	7	10	37
Tractor and semitrailer	3005	3160	3159	3054	2953	15331
Tractor + other	8	5	11	7	7	38
Tractor + semi + A dolly	1	0	0	2	0	3
Tractor + full trailer	1	0	0	1	1	3
Tractor + gooseneck + other	0	0	0	5	1	6
Double with A dolly	99	81	124	86	104	494
Double, B train	3	2	1	2	4	12
Double with C dolly	0	4	0	2	3	9
Double with unknown dolly type	2	7	6	6	4	25
Tractor + semi + full	51	58	53	59	43	264
Tractor + semi + other	0	1	0	1	2	4
Tractor + ballhitch + 2 other trailers	0	0	0	0	1	1
Tractor + semi + unknown	2	3	1	0	1	7
Triple with A dollies	1	0	3	2	2	8
Tractor + jeep + semi + jeep	1	1	0	0	0	2
Tractor + semi + jeep	1	1	0	1	0	3
Tractor + jeep + semi	0	2	0	1	3	6
Tractor + jeep + semitrailer + other	0	0	0	2	1	3
Tractor + 2 saddlemount tractors	1	1	0	0	0	2
Tractor + 3 saddlemount tractors	0	0	1	0	1	2
Straight + 2 saddlemount straights	1	0	0	0	0	1
Unknown	100	10	12	50	11	183
Total	5104	5313	5343	5250	5049	26059

Table 1-3
Fatal Truck Involvements by Year and State

State	2003	2004	2005	2006	2007	Total
	N	N	N	N	N	N
Alabama	155	150	125	136	132	698
Alaska	5	15	4	7	7	38
Arizona	112	111	95	144	102	564
Arkansas	106	99	142	111	116	574
California	360	405	385	403	421	1974
Colorado	63	78	71	83	89	384
Connecticut	25	30	20	29	25	129
Delaware	17	19	8	20	7	71
District of Columbia	0	6	3	2	2	13
Florida	380	399	431	368	316	1894
Georgia	228	256	253	251	246	1234
Hawaii	5	7	5	8	3	28
Idaho	38	32	32	27	28	157
Illinois	192	163	203	169	154	881
Indiana	174	175	146	146	155	796
Iowa	66	64	71	80	74	355
Kansas	79	86	77	70	79	391
Kentucky	130	132	120	121	111	614
Louisiana	121	108	138	114	126	607
Maine	16	19	18	22	20	95
Maryland	69	82	66	69	68	354
Massachusetts	37	40	27	36	30	170
Michigan	121	126	115	123	121	606
Minnesota	68	69	62	63	79	341
Mississippi	81	90	92	91	73	427
Missouri	161	159	169	145	152	786
Montana	26	18	24	27	33	128
Nebraska	55	43	53	29	44	224
Nevada	42	33	53	50	26	204
New Hampshire	14	13	13	7	13	60
New Jersey	68	99	115	83	77	442
New Mexico	44	66	63	74	65	312
New York	156	141	147	173	153	770
North Carolina	175	194	213	159	159	900
North Dakota	15	17	12	17	13	74
Ohio	158	191	180	162	137	828
Oklahoma	126	120	128	156	115	645
Oregon	56	55	64	58	59	292
Pennsylvania	221	220	203	198	224	1066
Rhode Island	7	4	1	8	6	26
South Carolina	100	108	131	104	98	541
South Dakota	17	20	16	21	17	91
Tennessee	123	151	149	148	150	721
Texas	507	482	512	512	532	2545
Utah	23	29	32	37	46	167
Vermont	13	14	9	12	4	52
Virginia	132	110	125	117	112	596
Washington	42	55	60	78	74	309
West Virginia	55	63	50	48	47	263
Wisconsin	90	97	86	79	83	435
Wyoming	30	50	26	55	26	187
Total	5104	5313	5343	5250	5049	26059

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

State	2003	2004	2005	2006	2007	Total
	N	N	N	N	N	N
Alabama	36	51	40	43	45	215
Alaska	3	4	2	4	2	15
Arizona	36	44	32	51	42	205
Arkansas	25	18	34	30	19	126
California	147	152	147	152	156	754
Colorado	13	35	27	25	40	140
Connecticut	11	18	13	15	13	70
Delaware	6	9	5	11	2	33
District of Columbia	0	4	1	2	2	9
Florida	163	160	204	160	157	844
Georgia	76	92	81	77	92	418
Hawaii	3	5	3	8	3	22
Idaho	13	12	13	13	11	62
Illinois	47	50	49	38	37	221
Indiana	41	47	40	40	45	213
Iowa	21	18	17	24	17	97
Kansas	24	21	18	19	22	104
Kentucky	48	43	35	48	36	210
Louisiana	33	26	49	35	34	177
Maine	8	8	5	8	8	37
Maryland	34	41	34	37	38	184
Massachusetts	21	23	9	18	18	89
Michigan	48	49	49	46	35	227
Minnesota	25	26	22	26	26	125
Mississippi	6	15	23	22	12	78
Missouri	52	48	61	53	47	261
Montana	9	8	10	11	10	48
Nebraska	12	11	18	5	13	59
Nevada	12	10	13	11	8	54
New Hampshire	7	5	6	4	10	32
New Jersey	13	57	49	39	34	192
New Mexico	4	11	13	14	19	61
New York	80	78	80	88	78	404
North Carolina	63	73	83	63	53	335
North Dakota	5	8	6	7	7	33
Ohio	55	67	50	52	42	266
Oklahoma	46	42	41	47	44	220
Oregon	17	29	20	19	25	110
Pennsylvania	87	73	73	79	70	382
Rhode Island	2	2	1	5	2	12
South Carolina	33	38	44	33	34	182
South Dakota	6	8	4	11	8	37
Tennessee	37	42	49	54	46	228
Texas	164	146	153	166	186	815
Utah	8	10	13	11	20	62
Vermont	5	5	5	5	2	22
Virginia	48	43	52	41	40	224
Washington	21	20	27	42	36	146
West Virginia	23	17	17	14	14	85
Wisconsin	37	38	32	28	36	171
Wyoming	7	6	7	13	7	40
Total	1741	1866	1879	1867	1803	9156

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

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

State	2003	2004	2005	2006	2007	Total
	N	N	N	N	N	N
Alabama	110	94	82	87	84	457
Alaska	1	8	1	2	2	14
Arizona	67	59	61	79	51	317
Arkansas	75	76	102	75	88	416
California	156	194	183	193	207	933
Colorado	48	41	38	51	47	225
Connecticut	6	10	6	13	11	46
Delaware	11	9	3	9	4	36
District of Columbia	0	2	2	0	0	4
Florida	201	230	210	203	148	992
Georgia	147	155	164	164	140	770
Hawaii	2	2	2	0	0	6
Idaho	21	17	15	11	15	79
Illinois	131	105	141	122	109	608
Indiana	129	113	101	97	106	546
Iowa	42	44	53	53	54	246
Kansas	49	61	49	51	55	265
Kentucky	79	84	80	67	71	381
Louisiana	86	74	82	71	88	401
Maine	8	10	12	14	12	56
Maryland	33	37	32	31	30	163
Massachusetts	14	16	17	11	9	67
Michigan	65	68	56	68	77	334
Minnesota	37	43	37	34	50	201
Mississippi	36	73	67	63	59	298
Missouri	104	104	98	86	96	488
Montana	11	8	12	11	17	59
Nebraska	43	31	32	22	28	156
Nevada	26	13	30	33	14	116
New Hampshire	7	6	7	3	3	26
New Jersey	22	42	62	40	40	206
New Mexico	28	48	45	52	42	215
New York	73	58	60	82	68	341
North Carolina	102	110	125	84	99	520
North Dakota	10	8	5	8	6	37
Ohio	98	117	127	104	88	534
Oklahoma	77	72	82	104	67	402
Oregon	29	22	37	29	25	142
Pennsylvania	123	141	114	111	145	634
Rhode Island	5	2	0	3	4	14
South Carolina	62	66	79	64	60	331
South Dakota	10	10	10	10	8	48
Tennessee	79	100	94	84	95	452
Texas	329	319	336	319	324	1627
Utah	11	18	15	21	19	84
Vermont	8	9	4	5	2	28
Virginia	80	63	68	70	68	349
Washington	16	28	25	23	25	117
West Virginia	30	46	31	33	31	171
Wisconsin	48	57	52	48	45	250
Wyoming	20	37	13	36	17	123
Total	3005	3160	3159	3054	2953	15331

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

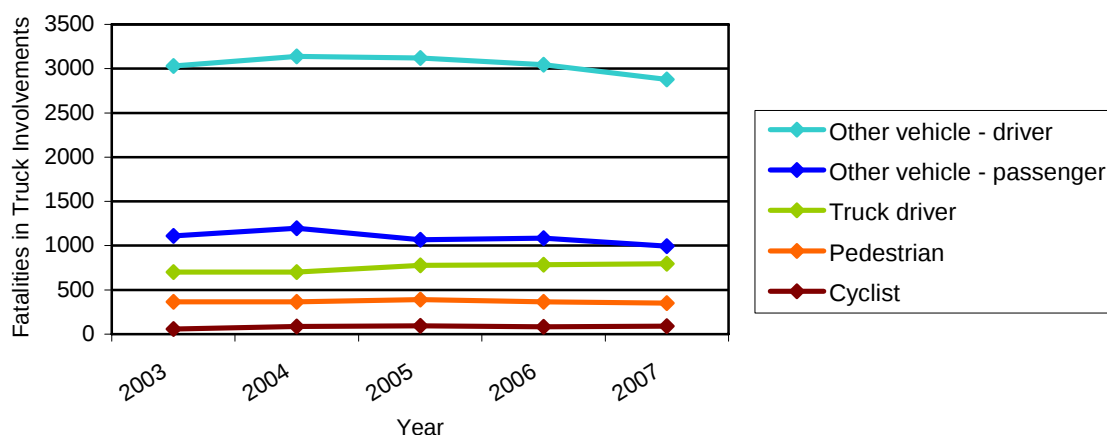
State	2003	2004	2005	2006	2007	Total
	N	N	N	N	N	N
Alabama	5	2	1	1	2	11
Alaska	1	2	1	0	2	6
Arizona	8	4	1	7	5	25
Arkansas	3	2	3	5	4	17
California	43	45	49	45	40	222
Colorado	1	0	3	2	1	7
Connecticut	1	0	1	0	0	2
Delaware	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0
Florida	4	1	6	3	6	20
Georgia	3	2	5	3	4	17
Hawaii	0	0	0	0	0	0
Idaho	2	2	3	3	0	10
Illinois	2	4	8	4	5	23
Indiana	3	9	3	2	3	20
Iowa	0	0	1	0	1	2
Kansas	3	3	5	0	1	12
Kentucky	1	2	2	4	2	11
Louisiana	1	2	1	3	1	8
Maine	0	0	0	0	0	0
Maryland	0	1	0	0	0	1
Massachusetts	0	1	0	2	1	4
Michigan	7	8	8	3	6	32
Minnesota	2	0	1	2	0	5
Mississippi	2	0	1	2	0	5
Missouri	3	2	3	2	5	15
Montana	4	1	2	4	5	16
Nebraska	0	0	1	0	3	4
Nevada	3	9	9	4	3	28
New Hampshire	0	0	0	0	0	0
New Jersey	1	0	2	1	1	5
New Mexico	2	5	3	2	2	14
New York	1	2	4	0	2	9
North Carolina	8	6	1	3	2	20
North Dakota	0	1	1	1	0	3
Ohio	4	5	2	3	4	18
Oklahoma	1	1	2	3	3	10
Oregon	5	3	4	4	7	23
Pennsylvania	6	3	9	4	5	27
Rhode Island	0	0	0	0	0	0
South Carolina	0	1	0	2	1	4
South Dakota	1	2	1	0	1	5
Tennessee	4	4	3	2	4	17
Texas	9	7	15	13	8	52
Utah	4	1	3	4	5	17
Vermont	0	0	0	0	0	0
Virginia	1	1	2	2	1	7
Washington	2	5	7	7	10	31
West Virginia	1	0	1	0	2	4
Wisconsin	2	1	2	0	2	7
Wyoming	3	6	5	4	2	20
Total	157	156	185	156	162	816

Annual fatalities

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

Vehicle/Person type	2003		2004		2005		2006		2007	
	N	%	N	%	N	%	N	%	N	%
Truck										
Driver	700	12.9	700	12.4	778	13.8	784	14.2	796	15.2
Passenger	123	2.3	156	2.8	147	2.6	142	2.6	119	2.3
Unknown occupant type	2	0.0	2	0.0	0	0.0	2	0.0	4	0.1
Truck total	825	15.3	858	15.2	925	16.5	928	16.8	919	17.5
Other vehicle										
Drivers	3029	56.0	3138	55.4	3120	55.5	3046	55.0	2877	54.8
Passengers	1110	20.5	1198	21.2	1065	18.9	1085	19.6	995	19.0
Unknown occupant type	10	0.2	3	0.1	2	0.0	7	0.1	1	0.0
Other vehicle total	4149	76.7	4339	76.6	4187	74.5	4138	74.7	3873	73.8
Non-motorists										
In parked vehicle	9	0.2	7	0.1	25	0.4	17	0.3	13	0.2
Pedestrian	364	6.7	366	6.5	392	7.0	366	6.6	350	6.7
Cyclists/personal conveyance	59	1.1	87	1.5	94	1.7	84	1.5	89	1.7
Other/unknown	3	0.1	6	0.1	0	0.0	4	0.1	4	0.1
Non-motorist total	435	8.0	466	8.2	511	9.1	471	8.5	456	8.7
Total	5409	100.0	5663	100.0	5623	100.0	5537	100.0	5248	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.

- October had the greatest number of fatal involvements with 506, while January and April had the fewest with 368.
- Almost two-thirds of fatal accident involvements occur in rural areas, and in daylight.
- 81.2% of fatal accident involvements occur on dry roads.
- 84.9% of fatal accident involvements occur in “normal” (i.e., no precipitation) weather conditions.
- 30.1% of fatal involvements occur on state highways, 22.9% on U.S. highways, and 26.8% on Interstate highways.
- In 11.2% of fatal involvements, the other vehicle crossed the center line of the road and struck the truck head on.

Geographic distributions

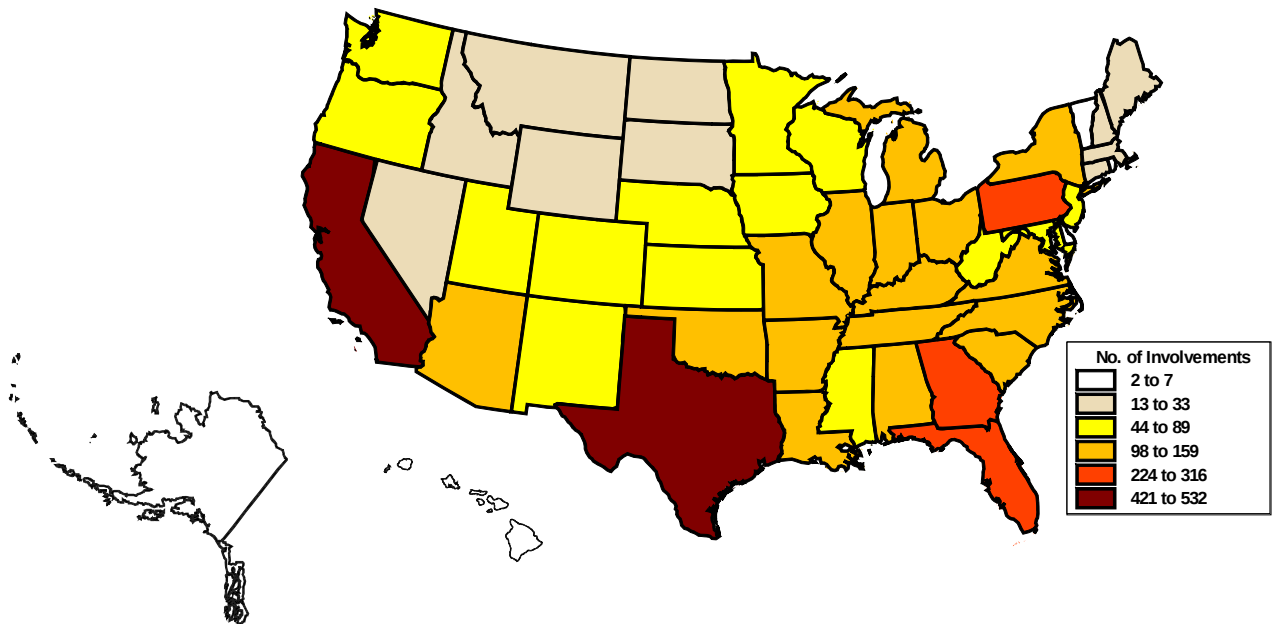


Figure 2-1
Fatal Truck Involvements by State

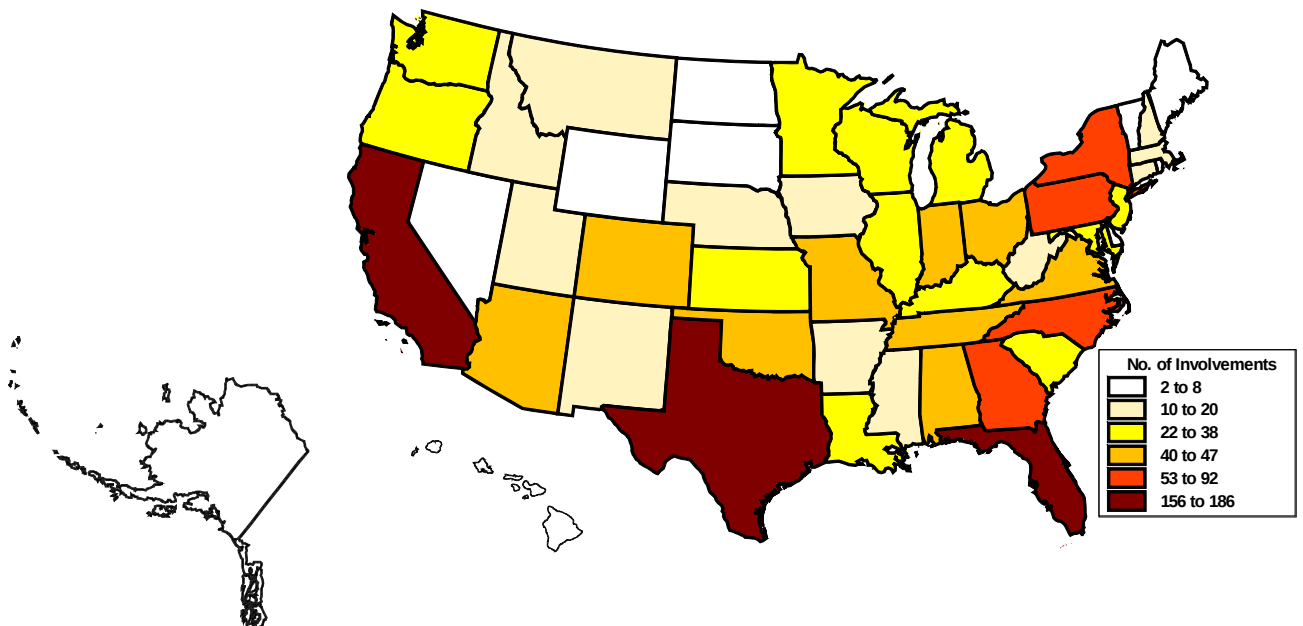


Figure 2-2
Fatal Truck Involvements by State – STRAIGHT TRUCKS ONLY

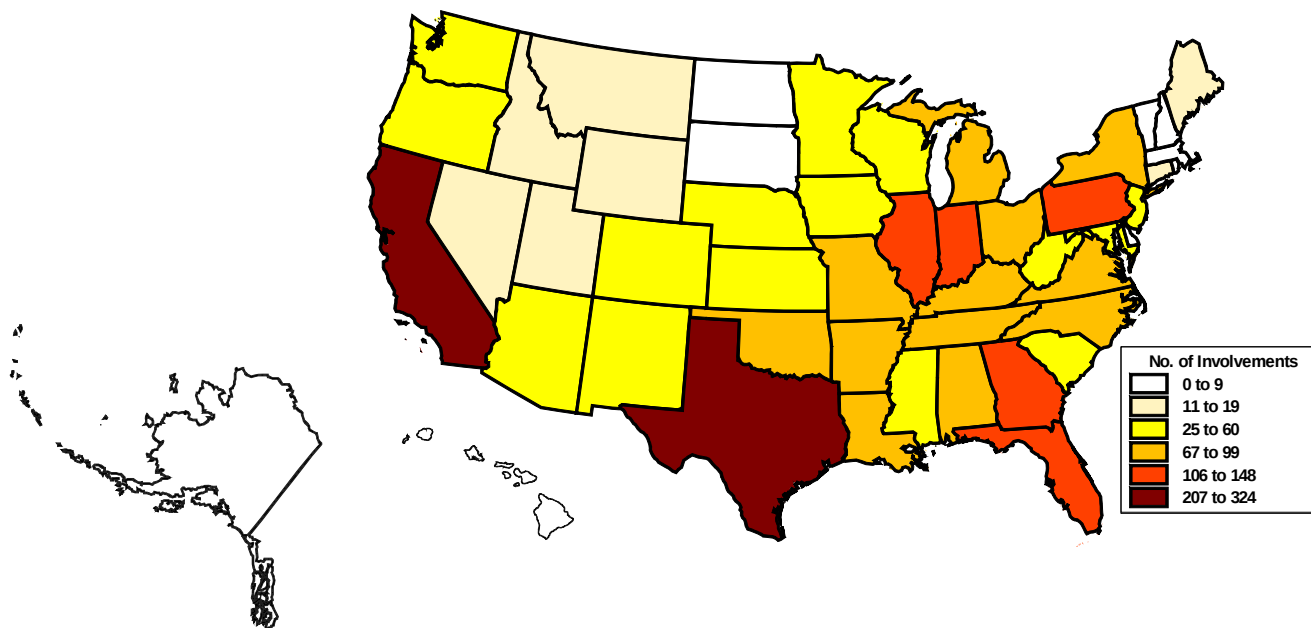


Figure 2-3
Fatal Truck Involvements by State – TRACTOR-SEMITRAILERS ONLY

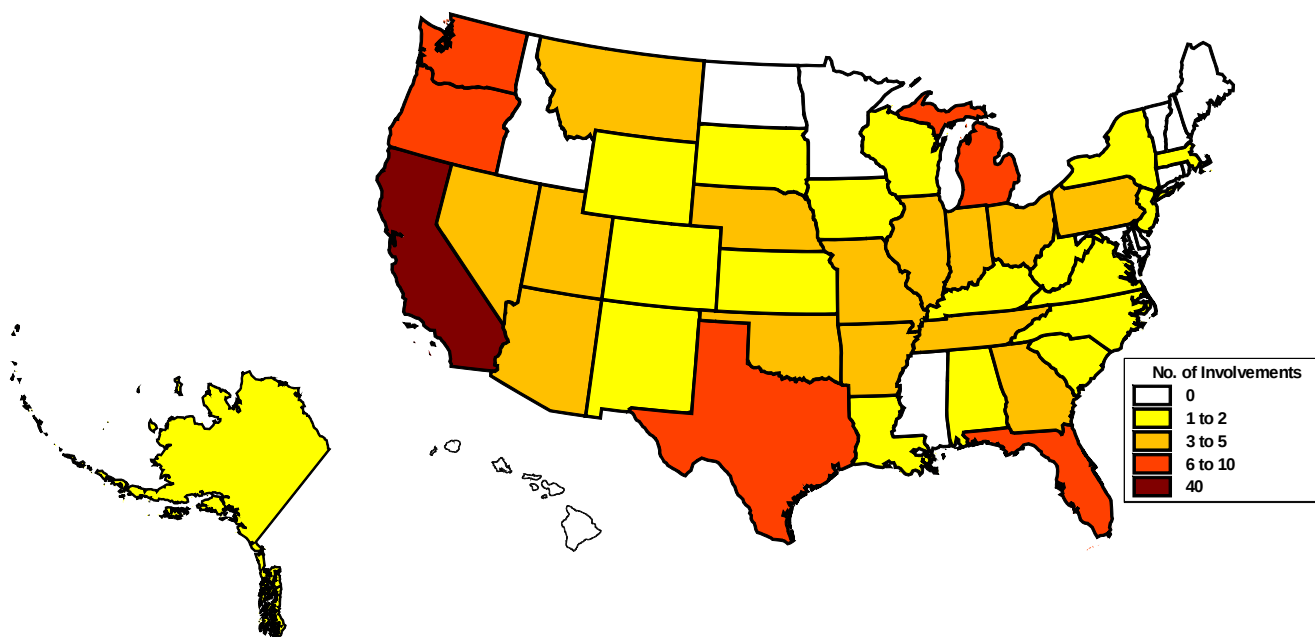


Figure 2-4
Fatal Truck Involvements by State – DOUBLES ONLY

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	43	2.8	2	0.8	1	1.0	84	2.8	2	1.2	0	0.0	0	0.0	132	2.6
Alaska	2	0.1	0	0.0	1	1.0	2	0.1	2	1.2	0	0.0	0	0.0	7	0.1
Arizona	36	2.3	5	2.0	1	1.0	51	1.7	5	3.1	2	7.7	2	18.2	102	2.0
Arkansas	16	1.0	3	1.2	5	4.8	88	3.0	4	2.5	0	0.0	0	0.0	116	2.3
California	131	8.5	25	10.1	17	16.3	207	7.0	40	24.7	1	3.8	0	0.0	421	8.3
Colorado	36	2.3	4	1.6	1	1.0	47	1.6	1	0.6	0	0.0	0	0.0	89	1.8
Connecticut	12	0.8	1	0.4	0	0.0	11	0.4	0	0.0	0	0.0	1	9.1	25	0.5
Delaware	2	0.1	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	1	9.1	7	0.1
District of Columbia	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Florida	137	8.9	20	8.1	3	2.9	148	5.0	6	3.7	2	7.7	0	0.0	316	6.3
Georgia	77	5.0	15	6.1	8	7.7	140	4.7	4	2.5	1	3.8	1	9.1	246	4.9
Hawaii	3	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Idaho	10	0.6	1	0.4	1	1.0	15	0.5	0	0.0	1	3.8	0	0.0	28	0.6
Illinois	31	2.0	5	2.0	1	1.0	109	3.7	5	3.1	2	7.7	1	9.1	154	3.1
Indiana	39	2.5	6	2.4	0	0.0	106	3.6	3	1.9	1	3.8	0	0.0	155	3.1
Iowa	12	0.8	4	1.6	2	1.9	54	1.8	1	0.6	1	3.8	0	0.0	74	1.5
Kansas	21	1.4	1	0.4	0	0.0	55	1.9	1	0.6	1	3.8	0	0.0	79	1.6
Kentucky	33	2.1	3	1.2	2	1.9	71	2.4	2	1.2	0	0.0	0	0.0	111	2.2
Louisiana	29	1.9	5	2.0	3	2.9	88	3.0	1	0.6	0	0.0	0	0.0	126	2.5
Maine	8	0.5	0	0.0	0	0.0	12	0.4	0	0.0	0	0.0	0	0.0	20	0.4
Maryland	34	2.2	4	1.6	0	0.0	30	1.0	0	0.0	0	0.0	0	0.0	68	1.3
Massachusetts	18	1.2	0	0.0	2	1.9	9	0.3	1	0.6	0	0.0	0	0.0	30	0.6
Michigan	28	1.8	7	2.8	3	2.9	77	2.6	6	3.7	0	0.0	0	0.0	121	2.4
Minnesota	23	1.5	3	1.2	3	2.9	50	1.7	0	0.0	0	0.0	0	0.0	79	1.6
Mississippi	10	0.6	2	0.8	1	1.0	59	2.0	0	0.0	1	3.8	0	0.0	73	1.4
Missouri	39	2.5	8	3.2	3	2.9	96	3.3	5	3.1	0	0.0	1	9.1	152	3.0
Montana	6	0.4	4	1.6	1	1.0	17	0.6	5	3.1	0	0.0	0	0.0	33	0.7
Nebraska	11	0.7	2	0.8	0	0.0	28	0.9	3	1.9	0	0.0	0	0.0	44	0.9
Nevada	5	0.3	3	1.2	1	1.0	14	0.5	3	1.9	0	0.0	0	0.0	26	0.5
New Hampshire	8	0.5	2	0.8	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	13	0.3
New Jersey	30	1.9	3	1.2	1	1.0	40	1.4	1	0.6	1	3.8	1	9.1	77	1.5
New Mexico	13	0.8	6	2.4	2	1.9	42	1.4	2	1.2	0	0.0	0	0.0	65	1.3
New York	74	4.8	4	1.6	3	2.9	68	2.3	2	1.2	1	3.8	1	9.1	153	3.0
North Carolina	43	2.8	9	3.6	4	3.8	99	3.4	2	1.2	2	7.7	0	0.0	159	3.1
North Dakota	6	0.4	1	0.4	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	13	0.3
Ohio	38	2.5	4	1.6	3	2.9	88	3.0	4	2.5	0	0.0	0	0.0	137	2.7
Oklahoma	40	2.6	4	1.6	1	1.0	67	2.3	3	1.9	0	0.0	0	0.0	115	2.3
Oregon	18	1.2	7	2.8	2	1.9	25	0.8	7	4.3	0	0.0	0	0.0	59	1.2
Pennsylvania	59	3.8	11	4.5	2	1.9	145	4.9	5	3.1	2	7.7	0	0.0	224	4.4
Rhode Island	2	0.1	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	6	0.1
South Carolina	30	1.9	4	1.6	2	1.9	60	2.0	1	0.6	1	3.8	0	0.0	98	1.9
South Dakota	6	0.4	2	0.8	0	0.0	8	0.3	1	0.6	0	0.0	0	0.0	17	0.3
Tennessee	38	2.5	7	2.8	5	4.8	95	3.2	4	2.5	1	3.8	0	0.0	150	3.0
Texas	153	9.9	30	12.1	11	10.6	324	11.0	8	4.9	4	15.4	2	18.2	532	10.5
Utah	19	1.2	1	0.4	2	1.9	19	0.6	5	3.1	0	0.0	0	0.0	46	0.9
Vermont	2	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Virginia	38	2.5	2	0.8	3	2.9	68	2.3	1	0.6	0	0.0	0	0.0	112	2.2
Washington	27	1.7	9	3.6	3	2.9	25	0.8	10	6.2	0	0.0	0	0.0	74	1.5
West Virginia	11	0.7	2	0.8	0	0.0	31	1.0	2	1.2	1	3.8	0	0.0	47	0.9
Wisconsin	31	2.0	5	2.0	0	0.0	45	1.5	2	1.2	0	0.0	0	0.0	83	1.6
Wyoming	6	0.4	1	0.4	0	0.0	17	0.6	2	1.2	0	0.0	0	0.0	26	0.5
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	100.0

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	105	6.8	17	6.9	9	8.7	221	7.5	14	8.6	1	3.8	1	9.1	368	7.3
February	121	7.8	8	3.2	7	6.7	262	8.9	18	11.1	2	7.7	1	9.1	419	8.3
March	133	8.6	16	6.5	5	4.8	262	8.9	12	7.4	5	19.2	0	0.0	433	8.6
April	129	8.3	19	7.7	7	6.7	204	6.9	7	4.3	1	3.8	1	9.1	368	7.3
May	122	7.9	16	6.5	2	1.9	225	7.6	8	4.9	2	7.7	0	0.0	375	7.4
June	127	8.2	33	13.4	15	14.4	257	8.7	17	10.5	0	0.0	1	9.1	450	8.9
July	146	9.4	24	9.7	8	7.7	238	8.1	15	9.3	4	15.4	1	9.1	436	8.6
August	163	10.5	22	8.9	13	12.5	237	8.0	19	11.7	2	7.7	0	0.0	456	9.0
September	144	9.3	24	9.7	9	8.7	248	8.4	12	7.4	1	3.8	0	0.0	438	8.7
October	133	8.6	22	8.9	11	10.6	313	10.6	20	12.3	4	15.4	3	27.3	506	10.0
November	107	6.9	25	10.1	11	10.6	264	8.9	9	5.6	2	7.7	1	9.1	419	8.3
December	116	7.5	21	8.5	7	6.7	222	7.5	11	6.8	2	7.7	2	18.2	381	7.5
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	73	4.7	23	9.3	10	9.6	206	7.0	6	3.7	1	3.8	0	0.0	319	6.3
Monday	273	17.7	44	17.8	18	17.3	487	16.5	24	14.8	4	15.4	2	18.2	852	16.9
Tuesday	269	17.4	38	15.4	9	8.7	456	15.4	25	15.4	4	15.4	2	18.2	803	15.9
Wednesday	266	17.2	44	17.8	12	11.5	494	16.7	25	15.4	4	15.4	0	0.0	845	16.7
Thursday	261	16.9	36	14.6	20	19.2	472	16.0	25	15.4	6	23.1	2	18.2	822	16.3
Friday	260	16.8	32	13.0	20	19.2	543	18.4	29	17.9	5	19.2	2	18.2	891	17.6
Saturday	144	9.3	30	12.1	15	14.4	295	10.0	28	17.3	2	7.7	3	27.3	517	10.2
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	1329	86.0	194	78.5	79	76.0	2452	83.0	128	79.0	23	88.5	8	72.7	4213	83.4
Weekend	217	14.0	53	21.5	25	24.0	501	17.0	34	21.0	3	11.5	3	27.3	836	16.6
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	1.2	4	1.6	4	3.8	80	2.7	10	6.2	0	0.0	0	0.0	117	2.3
1:00 AM	29	1.9	3	1.2	4	3.8	77	2.6	9	5.6	1	3.8	1	9.1	124	2.5
2:00 AM	21	1.4	4	1.6	5	4.8	117	4.0	12	7.4	1	3.8	1	9.1	161	3.2
3:00 AM	27	1.7	2	0.8	2	1.9	73	2.5	7	4.3	2	7.7	0	0.0	113	2.2
4:00 AM	25	1.6	3	1.2	4	3.8	90	3.0	10	6.2	1	3.8	3	27.3	136	2.7
5:00 AM	58	3.8	3	1.2	2	1.9	119	4.0	10	6.2	2	7.7	2	18.2	196	3.9
6:00 AM	89	5.8	10	4.0	3	2.9	142	4.8	13	8.0	0	0.0	0	0.0	257	5.1
7:00 AM	88	5.7	18	7.3	1	1.0	144	4.9	6	3.7	2	7.7	0	0.0	259	5.1
8:00 AM	87	5.6	12	4.9	4	3.8	127	4.3	10	6.2	1	3.8	0	0.0	241	4.8
9:00 AM	103	6.7	13	5.3	2	1.9	150	5.1	5	3.1	1	3.8	1	9.1	275	5.4
10:00 AM	101	6.5	13	5.3	5	4.8	165	5.6	9	5.6	1	3.8	0	0.0	294	5.8
11:00 AM	117	7.6	11	4.5	5	4.8	143	4.8	10	6.2	2	7.7	1	9.1	289	5.7
Noon	104	6.7	23	9.3	8	7.7	171	5.8	8	4.9	2	7.7	0	0.0	316	6.3
1:00 PM	91	5.9	16	6.5	8	7.7	178	6.0	2	1.2	0	0.0	1	9.1	296	5.9
2:00 PM	119	7.7	11	4.5	6	5.8	174	5.9	2	1.2	1	3.8	0	0.0	313	6.2
3:00 PM	101	6.5	28	11.3	7	6.7	176	6.0	4	2.5	2	7.7	0	0.0	318	6.3
4:00 PM	84	5.4	17	6.9	7	6.7	136	4.6	1	0.6	2	7.7	0	0.0	247	4.9
5:00 PM	83	5.4	16	6.5	3	2.9	124	4.2	5	3.1	0	0.0	0	0.0	231	4.6
6:00 PM	63	4.1	7	2.8	5	4.8	102	3.5	2	1.2	0	0.0	0	0.0	179	3.5
7:00 PM	28	1.8	9	3.6	5	4.8	78	2.6	4	2.5	1	3.8	0	0.0	125	2.5
8:00 PM	38	2.5	9	3.6	4	3.8	92	3.1	5	3.1	2	7.7	0	0.0	150	3.0
9:00 PM	20	1.3	6	2.4	3	2.9	91	3.1	3	1.9	1	3.8	0	0.0	124	2.5
10:00 PM	20	1.3	4	1.6	3	2.9	120	4.1	11	6.8	1	3.8	0	0.0	159	3.1
11:00 PM	28	1.8	5	2.0	4	3.8	81	2.7	4	2.5	0	0.0	1	9.1	123	2.4
Unknown	3	0.2	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	6	0.1
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	85	2.0	32	3.8	117	2.3
1:00 AM	81	1.9	43	5.1	124	2.5
2:00 AM	109	2.6	52	6.2	161	3.2
3:00 AM	76	1.8	37	4.4	113	2.2
4:00 AM	107	2.5	29	3.5	136	2.7
5:00 AM	155	3.7	41	4.9	196	3.9
6:00 AM	225	5.3	32	3.8	257	5.1
7:00 AM	216	5.1	43	5.1	259	5.1
8:00 AM	208	4.9	33	3.9	241	4.8
9:00 AM	239	5.7	36	4.3	275	5.4
10:00 AM	262	6.2	32	3.8	294	5.8
11:00 AM	248	5.9	41	4.9	289	5.7
Noon	279	6.6	37	4.4	316	6.3
1:00 PM	260	6.2	36	4.3	296	5.9
2:00 PM	272	6.5	41	4.9	313	6.2
3:00 PM	283	6.7	35	4.2	318	6.3
4:00 PM	210	5.0	37	4.4	247	4.9
5:00 PM	187	4.4	44	5.3	231	4.6
6:00 PM	151	3.6	28	3.3	179	3.5
7:00 PM	99	2.3	26	3.1	125	2.5
8:00 PM	127	3.0	23	2.8	150	3.0
9:00 PM	98	2.3	26	3.1	124	2.5
10:00 PM	129	3.1	30	3.6	159	3.1
11:00 PM	101	2.4	22	2.6	123	2.4
Unknown	6	0.1	0	0.0	6	0.1
Total	4213	100.0	836	100.0	5049	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	666	43.1	82	33.2	42	40.4	955	32.3	56	34.6	12	46.2	9	81.8	1822	36.1
Rural	875	56.6	165	66.8	61	58.7	1997	67.6	106	65.4	14	53.8	2	18.2	3220	63.8
Unknown	5	0.3	0	0.0	1	1.0	1	0.0	0	0.0	0	0.0	0	0.0	7	0.1
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	1131	73.2	186	75.3	55	52.9	1755	59.4	69	42.6	15	57.7	3	27.3	3214	63.7
Dark	240	15.5	41	16.6	33	31.7	809	27.4	58	35.8	8	30.8	3	27.3	1192	23.6
Dark but lighted	125	8.1	12	4.9	12	11.5	280	9.5	26	16.0	3	11.5	5	45.5	463	9.2
Dawn	32	2.1	4	1.6	1	1.0	77	2.6	9	5.6	0	0.0	0	0.0	123	2.4
Dusk	16	1.0	3	1.2	3	2.9	32	1.1	0	0.0	0	0.0	0	0.0	54	1.1
Unknown	2	0.1	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	1312	84.9	215	87.0	87	83.7	2329	78.9	126	77.8	21	80.8	8	72.7	4098	81.2
Wet	146	9.4	20	8.1	13	12.5	420	14.2	21	13.0	3	11.5	2	18.2	625	12.4
Snow or slush	54	3.5	7	2.8	1	1.0	100	3.4	6	3.7	1	3.8	0	0.0	169	3.3
Ice/frost	30	1.9	3	1.2	3	2.9	85	2.9	8	4.9	0	0.0	0	0.0	129	2.6
Sand, dirt, mud, gravel	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
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	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Other	0	0.0	0	0.0	0	0.0	7	0.2	1	0.6	0	0.0	0	0.0	8	0.2
Unknown	2	0.1	2	0.8	0	0.0	8	0.3	0	0.0	1	3.8	1	9.1	14	0.3
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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)	1370	88.6	219	88.7	90	86.5	2442	82.7	134	82.7	22	84.6	10	90.9	4287	84.9
Rain	77	5.0	10	4.0	8	7.7	274	9.3	15	9.3	2	7.7	0	0.0	386	7.6
Sleet (hail)	13	0.8	0	0.0	1	1.0	16	0.5	0	0.0	0	0.0	0	0.0	30	0.6
Snow or blowing snow	50	3.2	10	4.0	4	3.8	125	4.2	8	4.9	1	3.8	0	0.0	198	3.9
Fog/smog/smoke	28	1.8	6	2.4	1	1.0	77	2.6	3	1.9	0	0.0	0	0.0	115	2.3
Severe crosswinds	4	0.3	1	0.4	0	0.0	11	0.4	2	1.2	0	0.0	0	0.0	18	0.4
Blowing sand, soil, or dirt	2	0.1	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Unknown	2	0.1	1	0.4	0	0.0	5	0.2	0	0.0	1	3.8	1	9.1	10	0.2
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	%
Urban																
Interstate	122	7.9	16	6.5	11	10.6	436	14.8	25	15.4	3	11.5	3	27.3	616	12.2
Freeway/expressway	66	4.3	7	2.8	5	4.8	86	2.9	9	5.6	1	3.8	0	0.0	174	3.4
Other principal artery	188	12.2	31	12.6	13	12.5	237	8.0	17	10.5	3	11.5	1	9.1	490	9.7
Minor artery	129	8.3	10	4.0	7	6.7	98	3.3	1	0.6	2	7.7	2	18.2	249	4.9
Collector	59	3.8	3	1.2	1	1.0	25	0.8	1	0.6	1	3.8	1	9.1	91	1.8
Local street	101	6.5	15	6.1	5	4.8	71	2.4	3	1.9	2	7.7	2	18.2	199	3.9
Unknown urban	1	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Total urban	666	43.1	82	33.2	42	40.4	955	32.3	56	34.6	12	46.2	9	81.8	1822	36.1
Rural																
Interstate	84	5.4	28	11.3	12	11.5	599	20.3	42	25.9	3	11.5	0	0.0	768	15.2
Other principal artery	248	16.0	48	19.4	17	16.3	665	22.5	38	23.5	3	11.5	0	0.0	1019	20.2
Minor artery	207	13.4	38	15.4	18	17.3	382	12.9	16	9.9	5	19.2	0	0.0	666	13.2
Major collector	185	12.0	34	13.8	7	6.7	249	8.4	8	4.9	2	7.7	2	18.2	487	9.6
Minor collector	42	2.7	7	2.8	3	2.9	39	1.3	1	0.6	0	0.0	0	0.0	92	1.8
Local road	106	6.9	10	4.0	4	3.8	62	2.1	1	0.6	0	0.0	0	0.0	183	3.6
Unknown rural	3	0.2	0	0.0	0	0.0	1	0.0	0	0.0	1	3.8	0	0.0	5	0.1
Total rural	875	56.6	165	66.8	61	58.7	1997	67.6	106	65.4	14	53.8	2	18.2	3220	63.8
Unknown	5	0.3	0	0.0	1	1.0	1	0.0	0	0.0	0	0.0	0	0.0	7	0.1
Total urban and rural	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	193	12.5	43	17.4	21	20.2	1024	34.7	64	39.5	6	23.1	3	27.3	1354	26.8
US highway	287	18.6	52	21.1	17	16.3	758	25.7	39	24.1	2	7.7	2	18.2	1157	22.9
State highway	545	35.3	87	35.2	34	32.7	809	27.4	37	22.8	9	34.6	1	9.1	1522	30.1
County road	236	15.3	34	13.8	11	10.6	165	5.6	12	7.4	2	7.7	2	18.2	462	9.2
Township	59	3.8	1	0.4	1	1.0	31	1.0	0	0.0	2	7.7	2	18.2	96	1.9
Municipality	174	11.3	18	7.3	16	15.4	107	3.6	9	5.6	4	15.4	1	9.1	329	6.5
Frontage road	8	0.5	1	0.4	1	1.0	9	0.3	0	0.0	0	0.0	0	0.0	19	0.4
Other	42	2.7	11	4.5	3	2.9	49	1.7	1	0.6	1	3.8	0	0.0	107	2.1
Unknown	2	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	%
Noninterchange																
Nonjunction	931	60.2	153	61.9	73	70.2	2015	68.2	122	75.3	16	61.5	7	63.6	3317	65.7
Intersection	410	26.5	63	25.5	18	17.3	557	18.9	24	14.8	7	26.9	2	18.2	1081	21.4
Intersection related	73	4.7	6	2.4	4	3.8	93	3.1	6	3.7	2	7.7	1	9.1	185	3.7
Driveway, alley, etc.	20	1.3	3	1.2	2	1.9	45	1.5	1	0.6	0	0.0	0	0.0	71	1.4
Entrance/exit ramp	10	0.6	0	0.0	2	1.9	9	0.3	2	1.2	0	0.0	0	0.0	23	0.5
Rail grade crossing	10	0.6	2	0.8	0	0.0	14	0.5	0	0.0	0	0.0	0	0.0	26	0.5
In crossover	6	0.4	2	0.8	0	0.0	10	0.3	1	0.6	0	0.0	0	0.0	19	0.4
Driveway access related	35	2.3	9	3.6	2	1.9	55	1.9	1	0.6	0	0.0	0	0.0	102	2.0
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
Interchange area																
Intersection	13	0.8	4	1.6	0	0.0	14	0.5	1	0.6	0	0.0	0	0.0	32	0.6
Intersection related	6	0.4	0	0.0	0	0.0	7	0.2	1	0.6	1	3.8	0	0.0	15	0.3
Driveway access	1	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Entrance/exit ramp	12	0.8	1	0.4	2	1.9	42	1.4	1	0.6	0	0.0	0	0.0	58	1.1
Crossover-related	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 location	19	1.2	4	1.6	1	1.0	87	2.9	2	1.2	0	0.0	1	9.1	114	2.3
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
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	19	1.2	2	0.8	1	1.0	42	1.4	1	0.6	0	0.0	0	0.0	65	1.3
2	1142	73.9	188	76.1	71	68.3	2072	70.2	109	67.3	20	76.9	3	27.3	3605	71.4
3	118	7.6	19	7.7	6	5.8	290	9.8	16	9.9	3	11.5	2	18.2	454	9.0
4	185	12.0	28	11.3	18	17.3	426	14.4	27	16.7	2	7.7	4	36.4	690	13.7
5	26	1.7	2	0.8	4	3.8	42	1.4	4	2.5	0	0.0	0	0.0	78	1.5
6	18	1.2	1	0.4	2	1.9	39	1.3	3	1.9	0	0.0	0	0.0	63	1.2
7 or more	7	0.5	0	0.0	0	0.0	20	0.7	2	1.2	1	3.8	0	0.0	30	0.6
Unknown	31	2.0	7	2.8	2	1.9	22	0.7	0	0.0	0	0.0	2	18.2	64	1.3
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	952	61.6	135	54.7	59	56.7	1294	43.8	57	35.2	12	46.2	5	45.5	2514	49.8
Median - no barrier	327	21.2	73	29.6	22	21.2	963	32.6	57	35.2	9	34.6	1	9.1	1452	28.8
Median with barrier	172	11.1	28	11.3	14	13.5	583	19.7	41	25.3	4	15.4	3	27.3	845	16.7
One way traffic	12	0.8	0	0.0	1	1.0	15	0.5	0	0.0	0	0.0	0	0.0	28	0.6
2-way with left turn lane	46	3.0	8	3.2	3	2.9	41	1.4	4	2.5	1	3.8	1	9.1	104	2.1
Entrance/exit ramp	22	1.4	1	0.4	4	3.8	48	1.6	3	1.9	0	0.0	0	0.0	78	1.5
Unknown	15	1.0	2	0.8	1	1.0	9	0.3	0	0.0	0	0.0	1	9.1	28	0.6
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	4	0.3	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	9	0.2
10	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
15	2	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	4	0.1
20	1	0.1	0	0.0	1	1.0	2	0.1	0	0.0	0	0.0	0	0.0	4	0.1
25	40	2.6	4	1.6	5	4.8	25	0.8	6	3.7	1	3.8	1	9.1	82	1.6
30	69	4.5	4	1.6	0	0.0	47	1.6	0	0.0	2	7.7	1	9.1	123	2.4
35	109	7.1	17	6.9	9	8.7	92	3.1	5	3.1	0	0.0	1	9.1	233	4.6
40	87	5.6	14	5.7	4	3.8	80	2.7	5	3.1	4	15.4	1	9.1	195	3.9
45	220	14.2	29	11.7	13	12.5	245	8.3	6	3.7	4	15.4	0	0.0	517	10.2
50	79	5.1	12	4.9	5	4.8	99	3.4	3	1.9	0	0.0	0	0.0	198	3.9
55	497	32.1	70	28.3	28	26.9	946	32.0	47	29.0	7	26.9	2	18.2	1597	31.6
60	92	6.0	15	6.1	8	7.7	212	7.2	13	8.0	0	0.0	1	9.1	341	6.8
65	177	11.4	41	16.6	14	13.5	624	21.1	47	29.0	5	19.2	2	18.2	910	18.0
70	97	6.3	32	13.0	10	9.6	447	15.1	21	13.0	2	7.7	0	0.0	609	12.1
75	23	1.5	3	1.2	1	1.0	102	3.5	8	4.9	1	3.8	0	0.0	138	2.7
80	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	47	3.0	6	2.4	6	5.8	22	0.7	1	0.6	0	0.0	2	18.2	84	1.7
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	165	10.7	20	8.1	15	14.4	241	8.2	9	5.6	1	3.8	0	0.0	451	8.9
Hit object in road	162	10.5	23	9.3	9	8.7	223	7.6	22	13.6	2	7.7	5	45.5	446	8.8
<i>Same direction, same trafficway</i>																
Rearend, truck striking	67	4.3	3	1.2	7	6.7	205	6.9	6	3.7	0	0.0	0	0.0	288	5.7
Rearend, truck struck	150	9.7	18	7.3	13	12.5	266	9.0	14	8.6	1	3.8	0	0.0	462	9.2
Sideswipe, in other's lane	12	0.8	6	2.4	2	1.9	26	0.9	2	1.2	0	0.0	0	0.0	48	1.0
Sideswipe, in truck's lane	26	1.7	5	2.0	1	1.0	90	3.0	6	3.7	3	11.5	1	9.1	132	2.6
<i>Opposite direction, same trafficway</i>																
Head-on, in other's lane	45	2.9	1	0.4	2	1.9	20	0.7	2	1.2	0	0.0	0	0.0	70	1.4
Head-on, in truck's lane	186	12.0	27	10.9	12	11.5	322	10.9	15	9.3	1	3.8	0	0.0	563	11.2
Sideswipe, in other's lane	30	1.9	2	0.8	3	2.9	47	1.6	1	0.6	1	3.8	0	0.0	84	1.7
Sideswipe, in truck's lane	91	5.9	21	8.5	6	5.8	310	10.5	20	12.3	3	11.5	0	0.0	451	8.9
<i>Change trafficway, one vehicle turning</i>																
Truck turn across path	65	4.2	13	5.3	6	5.8	102	3.5	5	3.1	2	7.7	0	0.0	193	3.8
Other turn across path	111	7.2	28	11.3	8	7.7	169	5.7	6	3.7	2	7.7	0	0.0	324	6.4
<i>Intersecting paths, both going straight</i>																
Truck into side of other	150	9.7	24	9.7	6	5.8	203	6.9	11	6.8	1	3.8	0	0.0	395	7.8
Other into side of truck	52	3.4	11	4.5	2	1.9	121	4.1	5	3.1	1	3.8	0	0.0	192	3.8
<i>Other accident types</i>																
Truck backed into other	10	0.6	3	1.2	0	0.0	13	0.4	0	0.0	1	3.8	0	0.0	27	0.5
Other backed into truck	0	0.0	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Untripped roll	29	1.9	2	0.8	1	1.0	59	2.0	1	0.6	0	0.0	0	0.0	92	1.8
Other	195	12.6	40	16.2	10	9.6	520	17.6	37	22.8	7	26.9	2	18.2	811	16.1
Unknown	0	0.0	0	0.0	1	1.0	12	0.4	0	0.0	0	0.0	3	27.3	16	0.3
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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>																
Overtake	72	4.7	9	3.6	7	6.7	129	4.4	4	2.5	2	7.7	0	0.0	223	4.4
Fire/explosion	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Immersion	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Fell/jumped from vehicle	17	1.1	4	1.6	1	1.0	7	0.2	0	0.0	0	0.0	0	0.0	29	0.6
Injured in vehicle	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 noncollision	5	0.3	1	0.4	1	1.0	8	0.3	0	0.0	0	0.0	0	0.0	15	0.3
Thrown or falling object	0	0.0	0	0.0	1	1.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Jackknife	1	0.1	0	0.0	0	0.0	12	0.4	0	0.0	0	0.0	0	0.0	13	0.3
Cargo/equipment loss or shift	0	0.0	1	0.4	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	4	0.1
<i>Collision with nonfixed object</i>																
Pedestrian	123	8.0	15	6.1	6	5.8	158	5.4	8	4.9	3	11.5	5	45.5	318	6.3
Pedalcycle	35	2.3	5	2.0	2	1.9	27	0.9	8	4.9	1	3.8	1	9.1	79	1.6
Railway train	9	0.6	2	0.8	0	0.0	11	0.4	0	0.0	0	0.0	0	0.0	22	0.4
Animal	0	0.0	0	0.0	0	0.0	6	0.2	1	0.6	0	0.0	0	0.0	7	0.1
Motor vehicle in transport	1093	70.7	181	73.3	70	67.3	2143	72.6	110	67.9	16	61.5	4	36.4	3617	71.6
Vehicle in transport - other roadway	19	1.2	4	1.6	3	2.9	119	4.0	10	6.2	2	7.7	0	0.0	157	3.1
Parked motor vehicle	13	0.8	0	0.0	1	1.0	29	1.0	0	0.0	0	0.0	0	0.0	43	0.9
Other type - nonmotorist	4	0.3	0	0.0	1	1.0	3	0.1	1	0.6	0	0.0	0	0.0	9	0.2
Other object - not fixed	0	0.0	0	0.0	0	0.0	7	0.2	1	0.6	0	0.0	0	0.0	8	0.2
Construction/maintenance vehicle	5	0.3	1	0.4	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	8	0.2
Ridden animal/conveyance	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Struck by falling/shifting cargo	3	0.2	3	1.2	0	0.0	7	0.2	0	0.0	0	0.0	0	0.0	13	0.3
<i>Collision with fixed object</i>																
Boulder	0	0.0	0	0.0	1	1.0	1	0.0	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	1	0.0	1	0.6	0	0.0	0	0.0	3	0.1
Bridge pier or abutment	1	0.1	0	0.0	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	9	0.2
Bridge parapet end	1	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	1	9.1	4	0.1
Bridge rail	2	0.1	1	0.4	1	1.0	7	0.2	0	0.0	0	0.0	0	0.0	11	0.2
Guardrail	20	1.3	3	1.2	2	1.9	70	2.4	7	4.3	1	3.8	0	0.0	103	2.0
Concrete traffic barrier	8	0.5	3	1.2	2	1.9	54	1.8	9	5.6	1	3.8	0	0.0	77	1.5
Other traffic barrier type	1	0.1	0	0.0	0	0.0	9	0.3	0	0.0	0	0.0	0	0.0	10	0.2
Highway/traffic sign post	11	0.7	0	0.0	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	19	0.4
Overhead sign support	1	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Luminaire/light support	2	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Utility pole	3	0.2	1	0.4	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	6	0.1
Other post, pole or supports	3	0.2	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Culvert	8	0.5	1	0.4	0	0.0	3	0.1	1	0.6	0	0.0	0	0.0	13	0.3
Curb	6	0.4	2	0.8	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	14	0.3
Ditch	12	0.8	1	0.4	1	1.0	21	0.7	0	0.0	0	0.0	0	0.0	35	0.7
Embankment - earth	10	0.6	1	0.4	0	0.0	11	0.4	0	0.0	0	0.0	0	0.0	22	0.4
Embankment - rock, stone, etc.	1	0.1	0	0.0	1	1.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Embankment - type unknown	9	0.6	1	0.4	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	15	0.3
Fence	6	0.4	1	0.4	1	1.0	8	0.3	0	0.0	0	0.0	0	0.0	16	0.3
Wall	0	0.0	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	5	0.1
Fire hydrant	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Tree	27	1.7	4	1.6	2	1.9	26	0.9	1	0.6	0	0.0	0	0.0	60	1.2
Other fixed object	4	0.3	1	0.4	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	9	0.2
Collision with snow bank	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Bridge overhead structure	2	0.1	1	0.4	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	6	0.1
Guardrail end	3	0.2	0	0.0	0	0.0	13	0.4	0	0.0	0	0.0	0	0.0	16	0.3
Mail box	3	0.2	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	4	0.1
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
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	52	3.4	7	2.8	4	3.8	49	1.7	2	1.2	0	0.0	0	0.0	114	2.3
Striking	826	53.4	128	51.8	61	58.7	1476	50.0	77	47.5	13	50.0	7	63.6	2588	51.3
Struck	601	38.9	101	40.9	39	37.5	1277	43.2	69	42.6	11	42.3	4	36.4	2102	41.6
Both	66	4.3	10	4.0	0	0.0	148	5.0	14	8.6	2	7.7	0	0.0	240	4.8
Unknown	1	0.1	1	0.4	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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 applicable	413	26.7	58	23.5	30	28.8	652	22.1	42	25.9	8	30.8	7	63.6	1210	24.0
Rear-end	243	15.7	35	14.2	21	20.2	661	22.4	28	17.3	1	3.8	2	18.2	991	19.6
Head-on	262	16.9	32	13.0	19	18.3	422	14.3	29	17.9	2	7.7	1	9.1	767	15.2
Front-to-side: same direction	44	2.8	6	2.4	2	1.9	94	3.2	6	3.7	0	0.0	0	0.0	152	3.0
Front-to-side: opposite direction	131	8.5	18	7.3	7	6.7	275	9.3	15	9.3	2	7.7	0	0.0	448	8.9
Front-to-side: right angle	340	22.0	71	28.7	19	18.3	586	19.8	30	18.5	7	26.9	1	9.1	1054	20.9
Front-to-side: unknown direction	11	0.7	1	0.4	1	1.0	13	0.4	2	1.2	0	0.0	0	0.0	28	0.6
Sideswipe: same direction	40	2.6	6	2.4	1	1.0	88	3.0	5	3.1	2	7.7	0	0.0	142	2.8
Sideswipe: opposite direction	44	2.8	11	4.5	2	1.9	114	3.9	4	2.5	3	11.5	0	0.0	178	3.5
Rear-to-side	5	0.3	0	0.0	1	1.0	15	0.5	0	0.0	1	3.8	0	0.0	22	0.4
Other	6	0.4	6	2.4	1	1.0	21	0.7	1	0.6	0	0.0	0	0.0	35	0.7
Unknown	7	0.5	3	1.2	0	0.0	12	0.4	0	0.0	0	0.0	0	0.0	22	0.4
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	1288	83.3	215	87.0	86	82.7	2579	87.3	143	88.3	23	88.5	11	100.0	4345	86.1
First event	71	4.6	6	2.4	6	5.8	108	3.7	3	1.9	0	0.0	0	0.0	194	3.8
Subsequent event	187	12.1	26	10.5	12	11.5	266	9.0	16	9.9	3	11.5	0	0.0	510	10.1
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	1546	100.0	232	93.9	104	100.0	2769	93.8	151	93.2	25	96.2	11	100.0	4838	95.8
First event	0	0.0	7	2.8	0	0.0	65	2.2	3	1.9	0	0.0	0	0.0	75	1.5
Subsequent event	0	0.0	8	3.2	0	0.0	119	4.0	8	4.9	1	3.8	0	0.0	136	2.7
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	1505	97.3	242	98.0	96	92.3	2719	92.1	145	89.5	26	100.0	11	100.0	4744	94.0
Fire in vehicle	41	2.7	5	2.0	8	7.7	234	7.9	17	10.5	0	0.0	0	0.0	305	6.0
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	1269	82.1	191	77.3	12	11.5	2403	81.4	130	80.2	22	84.6	5	45.5	4032	79.9
Nonhazardous	218	14.1	46	18.6	2	1.9	442	15.0	25	15.4	2	7.7	0	0.0	735	14.6
Hazardous	6	0.4	2	0.8	0	0.0	48	1.6	3	1.9	0	0.0	0	0.0	59	1.2
Unknown	53	3.4	8	3.2	90	86.5	60	2.0	4	2.5	2	7.7	6	54.5	223	4.4
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	100.0

Vehicle

This section provides statistics that describe the physical configuration of trucks involved in a fatal accident in 2007. 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 5,049 trucks involved in a fatal accident in 2007, there were 2,953 tractor-semitrailers, 1,546 straight trucks with no trailer, 247 straight trucks pulling a trailer, 104 bobtail tractors, and 162 tractors pulling two trailers.

- Straight trucks with no trailer represented 30.6% 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.
- 19.7% of the straight trucks had dump bodies. The next most common straight truck cargo body was a van body, with 19.5%.
- 31.8% of the trucks were empty, 22.1% were carrying general freight, and 12.9% were carrying solids in bulk (gravel, soil, etc.) at the time of the accident.
- 73.4% of the trucks involved in a fatal accident were Class 8, the heaviest Gross Vehicle Weight Rating (GVWR) class.
- 49.1% of the trucks were operated by interstate for-hire carriers, 15.5% by interstate private carriers, and 14.8% by intrastate private carriers.
- 35.7% of the trucks were on local trips (within 50 miles of base) when involved in the fatal accident.
- 45.9% of tractor-semitrailers and 45.1% of tractors with two trailers (doubles) had a speed limiter installed.
- 75 tractor-semitrailers and 20 straight trucks involved in a fatal accident were carrying flammable liquids at the time of the crash.
- 9.2% of tractor-semitrailers with a tank body style rolled over as the first event in the fatal crash, and 17.5% rolled as a subsequent event.

Table 3-1
Fatal Truck Involvements by Truck Configuration

Configuration	N	%
<i>Straight trucks</i>		
Straight truck only	1546	30.6
<i>Straight truck, 1 trailer</i>		
Straight + full trailer	43	0.9
Straight + other	139	2.8
Straight + gooseneck hitch + other	65	1.3
<i>Subtotal</i>	247	4.9
<i>Other straight combinations</i>		
Wrecker + tow	8	0.2
Straight, unknown if pulling trailer	2	0.0
<i>Subtotal</i>	10	0.2
<i>Total straight trucks</i>	1803	35.7
<i>Tractor combinations</i>		
<i>Tractor, no trailers</i>		
Bobtail tractor	94	1.9
Tractor carrying cargo	10	0.2
<i>Subtotal</i>	104	2.1
<i>Tractor, 1 trailer</i>		
Tractor and semitrailer	2953	58.5
Tractor + other (nonsemitrailer)	7	0.1
Tractor + full trailer	1	0.0
Tractor + gooseneck + other	1	0.0
<i>Subtotal</i>	2962	58.7
<i>Tractor, 2 trailers</i>		
Double with A dolly	104	2.1
Double, B train	4	0.1
Double with C dolly	3	0.1
Double with unknown dolly	4	0.1
Tractor + semitrailer + full trailer	43	0.9
Tractor + semitrailer + other	2	0.0
Tractor + semitrailer + unknown	1	0.0
Tractor + ballhitch + 2 other trailers	1	0.0
<i>Subtotal</i>	162	3.2
<i>Tractor, 3 trailers</i>		
Triple with A dollies	2	0.0
<i>Subtotal</i>	2	0.0
<i>Other tractor combinations</i>		
Tractor + jeep + semitrailer	3	0.1
Tractor + jeep + semitrailer + other	1	0.0
Tractor + 3 saddlemount tractors	1	0.0
<i>Subtotal</i>	5	0.1
<i>Total tractors</i>	3235	64.1
<i>Unknown</i>	11	0.2
<i>Grand total</i>	5049	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	104	100.0	0	0.0	0	0.0	0	0.0	0	0.0	104	2.1
Van	301	19.5	15	6.1	0	0.0	1212	41.0	95	58.6	3	11.5	0	0.0	1626	32.2
Open top van	1	0.1	0	0.0	0	0.0	38	1.3	0	0.0	0	0.0	0	0.0	39	0.8
Refrigerated van	42	2.7	0	0.0	0	0.0	389	13.2	2	1.2	0	0.0	0	0.0	433	8.6
Livestock carrier	0	0.0	0	0.0	0	0.0	38	1.3	0	0.0	0	0.0	0	0.0	38	0.8
Flatbed	105	6.8	38	15.4	0	0.0	405	13.7	18	11.1	0	0.0	0	0.0	566	11.2
Lowboy	0	0.0	0	0.0	0	0.0	50	1.7	1	0.6	4	15.4	0	0.0	55	1.1
Flatbed with equipment	38	2.5	3	1.2	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	42	0.8
Flatbed with sides	32	2.1	3	1.2	0	0.0	19	0.6	1	0.6	0	0.0	0	0.0	55	1.1
Pole/logging	4	0.3	4	1.6	0	0.0	94	3.2	1	0.6	0	0.0	0	0.0	103	2.0
Tank: liquid/gaseous	68	4.4	14	5.7	0	0.0	269	9.1	5	3.1	0	0.0	0	0.0	356	7.1
Tank: dry bulk	1	0.1	0	0.0	0	0.0	46	1.6	11	6.8	0	0.0	0	0.0	58	1.1
Auto carrier	1	0.1	16	6.5	0	0.0	10	0.3	0	0.0	0	0.0	0	0.0	27	0.5
Dump	305	19.7	50	20.2	0	0.0	227	7.7	6	3.7	1	3.8	0	0.0	589	11.7
Hopper bottom	1	0.1	0	0.0	0	0.0	84	2.8	19	11.7	0	0.0	0	0.0	104	2.1
Garbage/refuse	106	6.9	2	0.8	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	114	2.3
Concrete mixer	61	3.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	61	1.2
Other	467	30.2	102	41.3	0	0.0	50	1.7	3	1.9	17	65.4	0	0.0	639	12.7
Unknown	13	0.8	0	0.0	0	0.0	15	0.5	0	0.0	1	3.8	11	100.0	40	0.8
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	608	39.3	123	49.8	92	88.5	754	25.5	24	14.8	3	11.5	0	0.0	1604	31.8
General freight	174	11.3	1	0.4	0	0.0	852	28.9	86	53.1	2	7.7	0	0.0	1115	22.1
Household goods	17	1.1	8	3.2	0	0.0	12	0.4	0	0.0	0	0.0	0	0.0	37	0.7
Building materials	11	0.7	1	0.4	0	0.0	43	1.5	0	0.0	0	0.0	0	0.0	55	1.1
Metal (coils, sheets)	5	0.3	0	0.0	0	0.0	106	3.6	0	0.0	0	0.0	0	0.0	111	2.2
Heavy machinery	12	0.8	4	1.6	0	0.0	56	1.9	0	0.0	3	11.5	0	0.0	75	1.5
Large objects	15	1.0	1	0.4	0	0.0	40	1.4	5	3.1	0	0.0	0	0.0	61	1.2
Motor vehicles	13	0.8	10	4.0	0	0.0	11	0.4	0	0.0	2	7.7	0	0.0	36	0.7
Piggyback/towaway	1	0.1	0	0.0	10	9.6	0	0.0	0	0.0	6	23.1	0	0.0	17	0.3
Gases in bulk	10	0.6	0	0.0	0	0.0	9	0.3	0	0.0	0	0.0	0	0.0	19	0.4
Solids in bulk	291	18.8	22	8.9	0	0.0	313	10.6	27	16.7	0	0.0	0	0.0	653	12.9
Liquids in bulk	48	3.1	9	3.6	0	0.0	164	5.6	3	1.9	0	0.0	0	0.0	224	4.4
Explosives	1	0.1	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Logs/poles/lumber	13	0.8	4	1.6	0	0.0	118	4.0	3	1.9	0	0.0	0	0.0	138	2.7
Refrigerated foods	30	1.9	0	0.0	0	0.0	262	8.9	1	0.6	0	0.0	0	0.0	293	5.8
Mobile home	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	26.9	0	0.0	7	0.1
Farm products	21	1.4	0	0.0	0	0.0	40	1.4	5	3.1	0	0.0	0	0.0	66	1.3
Live animals	2	0.1	0	0.0	0	0.0	25	0.8	0	0.0	0	0.0	0	0.0	27	0.5
Other	197	12.7	38	15.4	0	0.0	6	0.2	1	0.6	0	0.0	0	0.0	242	4.8
Cargo, unknown type	5	0.3	0	0.0	0	0.0	22	0.7	3	1.9	0	0.0	0	0.0	30	0.6
Unknown	72	4.7	26	10.5	2	1.9	116	3.9	4	2.5	3	11.5	11	100.0	234	4.6
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	1346	87.1	245	99.2	94	90.4	2895	98.0	153	94.4	25	96.2	5	45.5	4763	94.3
Cabover or cab-forward	199	12.9	2	0.8	9	8.7	37	1.3	9	5.6	1	3.8	0	0.0	257	5.1
Unknown	1	0.1	0	0.0	1	1.0	21	0.7	0	0.0	0	0.0	6	54.5	29	0.6
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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
1967	1	0.0	1	0.4	0	0.0	2	0.0
1968	1	0.0	0	0.0	0	0.0	1	0.0
1969	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
1972	4	0.1	0	0.0	0	0.0	4	0.1
1973	2	0.0	2	0.8	0	0.0	4	0.1
1974	1	0.0	0	0.0	0	0.0	1	0.0
1975	3	0.1	0	0.0	0	0.0	3	0.1
1976	7	0.1	0	0.0	0	0.0	7	0.1
1977	4	0.1	1	0.4	0	0.0	5	0.1
1978	4	0.1	0	0.0	1	3.4	5	0.1
1979	13	0.3	1	0.4	0	0.0	14	0.3
1980	8	0.2	1	0.4	0	0.0	9	0.2
1981	3	0.1	1	0.4	0	0.0	4	0.1
1982	4	0.1	5	1.9	0	0.0	9	0.2
1983	5	0.1	1	0.4	0	0.0	6	0.1
1984	22	0.5	1	0.4	0	0.0	23	0.5
1985	16	0.3	2	0.8	0	0.0	18	0.4
1986	20	0.4	3	1.2	0	0.0	23	0.5
1987	23	0.5	2	0.8	0	0.0	25	0.5
1988	37	0.8	1	0.4	1	3.4	39	0.8
1989	48	1.0	7	2.7	0	0.0	55	1.1
1990	44	0.9	7	2.7	0	0.0	51	1.0
1991	32	0.7	6	2.3	0	0.0	38	0.8
1992	38	0.8	8	3.1	0	0.0	46	0.9
1993	77	1.6	7	2.7	0	0.0	84	1.7
1994	116	2.4	5	1.9	0	0.0	121	2.4
1995	142	3.0	13	5.1	0	0.0	155	3.1
1996	160	3.4	7	2.7	0	0.0	167	3.3
1997	163	3.4	14	5.4	0	0.0	177	3.5
1998	235	4.9	9	3.5	0	0.0	244	4.8
1999	359	7.5	19	7.4	0	0.0	378	7.5
2000	400	8.4	17	6.6	0	0.0	417	8.3
2001	293	6.2	17	6.6	0	0.0	310	6.1
2002	210	4.4	15	5.8	0	0.0	225	4.5
2003	281	5.9	13	5.1	0	0.0	294	5.8
2004	288	6.0	10	3.9	0	0.0	298	5.9
2005	541	11.4	25	9.7	0	0.0	566	11.2
2006	565	11.9	17	6.6	1	3.4	583	11.5
2007	529	11.1	17	6.6	0	0.0	546	10.8
2008	56	1.2	1	0.4	0	0.0	57	1.1
Unknown	4	0.1	1	0.4	26	89.7	31	0.6
Total	4763	100.0	257	100.0	29	100.0	5049	100.0

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

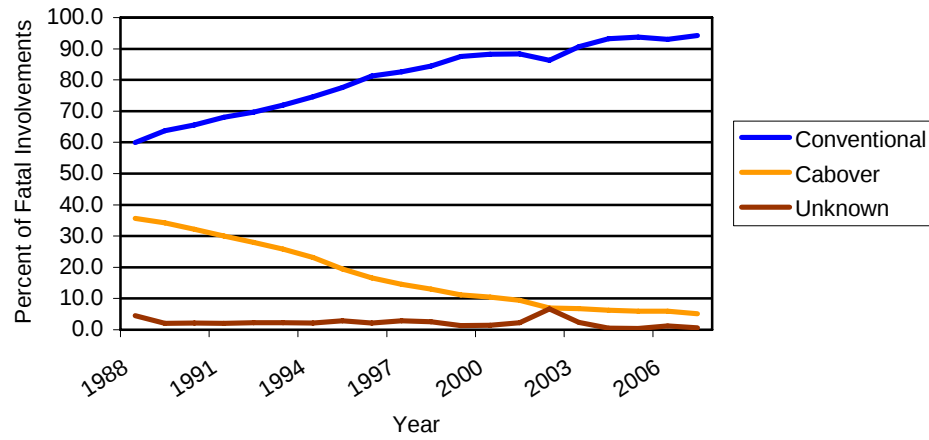


Figure 3-2
Fatal Truck Involvements by Power Unit Type and Model Year

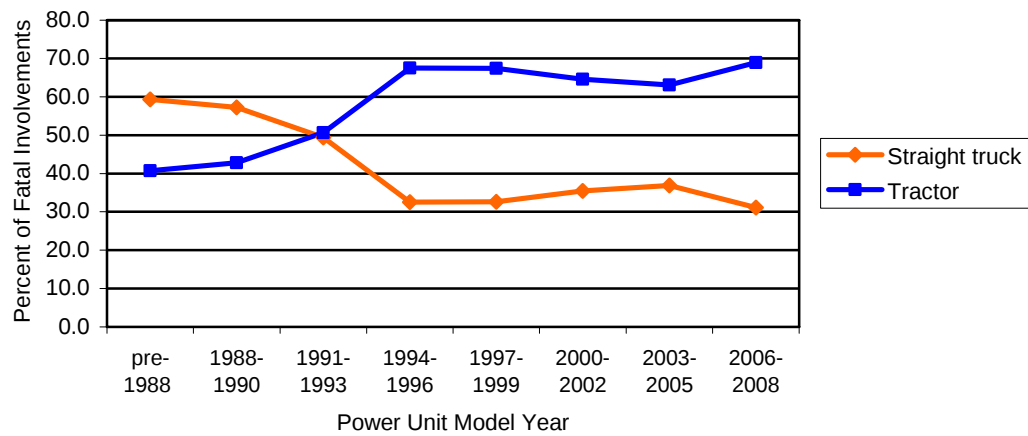


Table 3-6
Fatal Truck Involvements by Power Unit Model Year and Truck Configuration

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
1967	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	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
1969	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	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
1972	4	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1
1973	4	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1
1974	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
1975	2	0.1	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
1976	6	0.4	0	0.0	1	1.0	0	0.0	0	0.0	0	0.0	0	0.0	7	0.1
1977	4	0.3	0	0.0	1	1.0	0	0.0	0	0.0	0	0.0	0	0.0	5	0.1
1978	2	0.1	0	0.0	1	1.0	2	0.1	0	0.0	0	0.0	0	0.0	5	0.1
1979	7	0.5	2	0.8	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	14	0.3
1980	7	0.5	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	9	0.2
1981	1	0.1	1	0.4	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	4	0.1
1982	3	0.2	1	0.4	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	9	0.2
1983	5	0.3	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	6	0.1
1984	6	0.4	2	0.8	2	1.9	13	0.4	0	0.0	0	0.0	0	0.0	23	0.5
1985	10	0.6	0	0.0	2	1.9	6	0.2	0	0.0	0	0.0	0	0.0	18	0.4
1986	13	0.8	1	0.4	0	0.0	8	0.3	1	0.6	0	0.0	0	0.0	23	0.5
1987	7	0.5	2	0.8	1	1.0	13	0.4	2	1.2	0	0.0	0	0.0	25	0.5
1988	16	1.0	3	1.2	0	0.0	19	0.6	1	0.6	0	0.0	0	0.0	39	0.8
1989	25	1.6	6	2.4	0	0.0	22	0.7	1	0.6	1	3.8	0	0.0	55	1.1
1990	31	2.0	2	0.8	4	3.8	10	0.3	3	1.9	1	3.8	0	0.0	51	1.0
1991	14	0.9	4	1.6	2	1.9	16	0.5	1	0.6	1	3.8	0	0.0	38	0.8
1992	21	1.4	3	1.2	1	1.0	17	0.6	4	2.5	0	0.0	0	0.0	46	0.9
1993	34	2.2	7	2.8	2	1.9	38	1.3	2	1.2	1	3.8	0	0.0	84	1.7
1994	37	2.4	7	2.8	4	3.8	70	2.4	3	1.9	0	0.0	0	0.0	121	2.4
1995	53	3.4	0	0.0	3	2.9	94	3.2	4	2.5	1	3.8	0	0.0	155	3.1
1996	40	2.6	6	2.4	6	5.8	111	3.8	4	2.5	0	0.0	0	0.0	167	3.3
1997	56	3.6	1	0.4	3	2.9	109	3.7	4	2.5	3	11.5	1	9.1	177	3.5
1998	64	4.1	9	3.6	12	11.5	152	5.1	7	4.3	0	0.0	0	0.0	244	4.8
1999	111	7.2	16	6.5	9	8.7	228	7.7	11	6.8	3	11.5	0	0.0	378	7.5
2000	90	5.8	27	10.9	7	6.7	282	9.5	9	5.6	2	7.7	0	0.0	417	8.3
2001	96	6.2	14	5.7	5	4.8	182	6.2	9	5.6	2	7.7	2	18.2	310	6.1
2002	91	5.9	17	6.9	4	3.8	106	3.6	5	3.1	2	7.7	0	0.0	225	4.5
2003	102	6.6	18	7.3	6	5.8	159	5.4	7	4.3	1	3.8	1	9.1	294	5.8
2004	95	6.1	15	6.1	4	3.8	173	5.9	10	6.2	1	3.8	0	0.0	298	5.9
2005	171	11.1	22	8.9	7	6.7	342	11.6	21	13.0	3	11.5	0	0.0	566	11.2
2006	173	11.2	38	15.4	8	7.7	337	11.4	27	16.7	0	0.0	0	0.0	583	11.5
2007	116	7.5	18	7.3	8	7.7	377	12.8	25	15.4	2	7.7	0	0.0	546	10.8
2008	21	1.4	3	1.2	0	0.0	30	1.0	1	0.6	2	7.7	0	0.0	57	1.1
Unknown	0	0.0	1	0.4	1	1.0	22	0.7	0	0.0	0	0.0	7	63.6	31	0.6
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	377	24.4	111	44.9	0	0.0	0	0.0	0	0.0	1	3.8	0	0.0	489	9.7
Class 4: 14,001-16,000	108	7.0	17	6.9	0	0.0	0	0.0	0	0.0	2	7.7	0	0.0	127	2.5
Class 5: 16,001-19,500	77	5.0	14	5.7	1	1.0	0	0.0	0	0.0	1	3.8	0	0.0	93	1.8
Class 6: 19,501-26,000	257	16.6	11	4.5	0	0.0	2	0.1	0	0.0	3	11.5	0	0.0	273	5.4
Class 7: 26,001-33,000	149	9.6	10	4.0	6	5.8	78	2.6	61	37.7	3	11.5	0	0.0	307	6.1
Class 8: 33,001 or more	559	36.2	79	32.0	96	92.3	2853	96.6	100	61.7	16	61.5	4	36.4	3707	73.4
Unknown	19	1.2	5	2.0	1	1.0	20	0.7	1	0.6	0	0.0	7	63.6	53	1.0
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	100.0

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

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	823	53.2	153	61.9	1	1.0	3	0.1	1	0.6	7	26.9	0	0.0	988	19.6
Over 26,000 lbs	707	45.7	89	36.0	102	98.1	2930	99.2	161	99.4	19	73.1	4	36.4	4012	79.5
Unknown	16	1.0	5	2.0	1	1.0	20	0.7	0	0.0	0	0.0	7	63.6	49	1.0
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	344	22.3	55	22.3	11	10.6	356	12.1	13	8.0	1	3.8	1	9.1	781	15.5
Interstate for-hire	153	9.9	44	17.8	61	58.7	2084	70.6	121	74.7	14	53.8	2	18.2	2479	49.1
Intrastate private	499	32.3	66	26.7	14	13.5	159	5.4	7	4.3	4	15.4	0	0.0	749	14.8
Intrastate for-hire	180	11.6	20	8.1	6	5.8	220	7.5	15	9.3	4	15.4	1	9.1	446	8.8
Personal use only	151	9.8	29	11.7	1	1.0	0	0.0	0	0.0	0	0.0	0	0.0	181	3.6
Government owned	54	3.5	6	2.4	1	1.0	8	0.3	1	0.6	2	7.7	0	0.0	72	1.4
Daily rental	22	1.4	8	3.2	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	31	0.6
Unknown	143	9.2	19	7.7	10	9.6	125	4.2	5	3.1	1	3.8	7	63.6	310	6.1
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	1002	64.8	121	49.0	54	51.9	586	19.8	28	17.3	9	34.6	0	0.0	1800	35.7
51-100 miles	160	10.3	23	9.3	14	13.5	402	13.6	13	8.0	5	19.2	0	0.0	617	12.2
101-150	31	2.0	8	3.2	3	2.9	181	6.1	8	4.9	1	3.8	0	0.0	232	4.6
151-200	17	1.1	12	4.9	1	1.0	165	5.6	11	6.8	1	3.8	0	0.0	207	4.1
201-500	30	1.9	19	7.7	8	7.7	544	18.4	62	38.3	4	15.4	0	0.0	667	13.2
Over 500	9	0.6	15	6.1	5	4.8	602	20.4	17	10.5	4	15.4	0	0.0	652	12.9
Unknown over-the-road distance	12	0.8	3	1.2	5	4.8	129	4.4	5	3.1	0	0.0	0	0.0	154	3.1
Unknown	285	18.4	46	18.6	14	13.5	344	11.6	18	11.1	2	7.7	11	100.0	720	14.3
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	1188	76.8	197	79.8	69	66.3	1487	50.4	84	51.9	18	69.2	11	100.0	3054	60.5
Headway detection/forward crash warning	2	0.1	1	0.4	2	1.9	36	1.2	6	3.7	0	0.0	0	0.0	47	0.9
Side/object detection	3	0.2	1	0.4	2	1.9	36	1.2	8	4.9	0	0.0	0	0.0	50	1.0
Lane departure warning	1	0.1	0	0.0	0	0.0	16	0.5	4	2.5	0	0.0	0	0.0	21	0.4
Rollover warning	0	0.0	0	0.0	0	0.0	29	1.0	0	0.0	0	0.0	0	0.0	29	0.6
Electronic stability control	2	0.1	0	0.0	2	1.9	58	2.0	0	0.0	0	0.0	0	0.0	62	1.2
Power unit tracking	33	2.1	8	3.2	13	12.5	499	16.9	12	7.4	2	7.7	0	0.0	567	11.2
Trailer tracking	0	0.0	1	0.4	1	1.0	96	3.3	2	1.2	0	0.0	0	0.0	100	2.0
Speed limiter	343	22.2	47	19.0	31	29.8	1355	45.9	73	45.1	7	26.9	0	0.0	1856	36.8
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	34	2.2	6	2.4	0	0.0	111	3.8	6	3.7	0	0.0	0	0.0	157	3.1
No	1479	95.7	238	96.4	14	13.5	2807	95.1	154	95.1	25	96.2	1	9.1	4718	93.4
Unknown	33	2.1	3	1.2	90	86.5	35	1.2	2	1.2	1	3.8	10	90.9	174	3.4
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	1	0.1	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Compressed gases	14	0.9	0	0.0	0	0.0	12	0.4	0	0.0	0	0.0	0	0.0	26	0.5
Flammable liquids	15	1.0	5	2.0	0	0.0	75	2.5	2	1.2	0	0.0	0	0.0	97	1.9
Flammable solids	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	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	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Corrosive liquids	1	0.1	1	0.4	0	0.0	7	0.2	4	2.5	0	0.0	0	0.0	13	0.3
Miscellaneous hazardous substances	1	0.1	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	6	0.1
Not applicable/not carrying hazardous materials	1479	95.7	238	96.4	14	13.5	2802	94.9	153	94.4	25	96.2	1	9.1	4712	93.3
Unknown	35	2.3	3	1.2	90	86.5	43	1.5	3	1.9	1	3.8	10	90.9	185	3.7
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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		Other		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
No rollover	304	88.4	150	85.7	46	66.7	253	82.7	95	89.6	47	77.0	380	80.5	13	100.0	1288	83.3
First event	7	2.0	7	4.0	6	8.7	17	5.6	3	2.8	6	9.8	25	5.3	0	0.0	71	4.6
Subsequent event	33	9.6	18	10.3	17	24.6	36	11.8	8	7.5	8	13.1	67	14.2	0	0.0	187	12.1
Total	344	100.0	175	100.0	69	100.0	306	100.0	106	100.0	61	100.0	472	100.0	13	100.0	1546	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		Other		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
No rollover	12	80.0	40	90.9	11	78.6	41	82.0	1	50.0	110	90.2	215	87.0	215	87.0
First event	0	0.0	1	2.3	1	7.1	2	4.0	0	0.0	2	1.6	6	2.4	6	2.4
Subsequent event	3	20.0	3	6.8	2	14.3	7	14.0	1	50.0	10	8.2	26	10.5	26	10.5
Total	15	100.0	44	100.0	14	100.0	50	100.0	2	100.0	122	100.0	247	100.0	247	100.0

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

Truck rollover status	Total	
	N	%
No rollover	86	82.7
First event	6	5.8
Subsequent event	12	11.5
Total	104	100.0

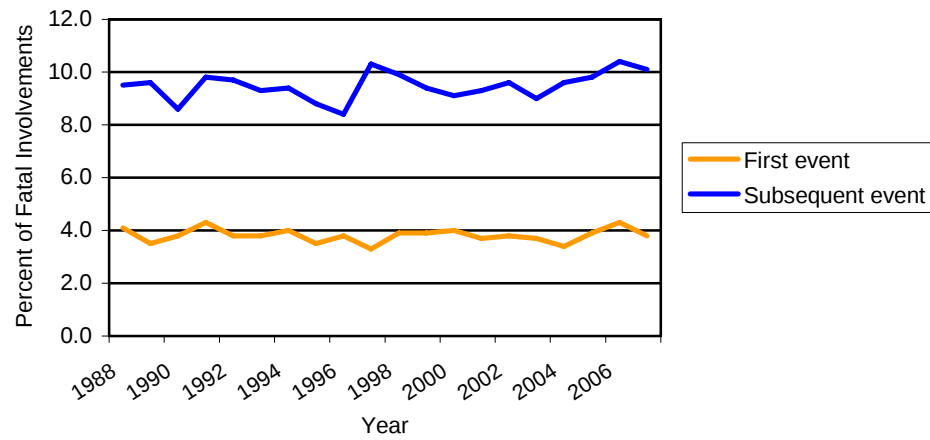
Table 3-17
Fatal Truck Involvements by Rollover Status and Cargo Body Style – TRACTOR/ 1 TRAILER

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	1491	90.9	414	87.2	231	73.3	260	83.6	35	92.1	80	85.1	60	81.1	15	100.0	2586	87.3
First event	36	2.2	24	5.1	29	9.2	12	3.9	1	2.6	0	0.0	6	8.1	0	0.0	108	3.6
Subsequent event	113	6.9	37	7.8	55	17.5	39	12.5	2	5.3	14	14.9	8	10.8	0	0.0	268	9.0
Total	1640	100.0	475	100.0	315	100.0	311	100.0	38	100.0	94	100.0	74	100.0	15	100.0	2962	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		Pole/logging		Other		None/unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
No rollover	86	88.7	19	95.0	11	68.8	25	100.0	0	0.0	2	66.7	143	88.3	143	88.3
First event	2	2.1	0	0.0	0	0.0	0	0.0	0	0.0	1	33.3	3	1.9	3	1.9
Subsequent event	9	9.3	1	5.0	5	31.3	0	0.0	1	100.0	0	0.0	16	9.9	16	9.9
Total	97	100.0	20	100.0	16	100.0	25	100.0	1	100.0	3	100.0	162	100.0	162	100.0

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



Note: Data from Trucks Involved in Fatal Accidents, 1988-2007

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.

- 2.2% of truck drivers involved in a fatal traffic accident had been drinking.
- Drug use was reported for 1.0% of truck drivers in a fatal crash.
- 96.4% of truck drivers involved in a fatal accident were male.
- 796 truck drivers were fatally injured in a traffic accident.
- 2.0% 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 (11.9%), followed by driving too fast (8.6%), inattentive (5.9%), and failure to yield (4.1%). Cellular phone in use was cited for 0.1% of drivers.
- 61.4% of truck drivers had no driver factors recorded.
- 39.8% of straight truck drivers are paid by the hour, compared with 13.3% of tractor-semitrailer drivers. Drivers of tractor-semitrailers are most commonly paid by the mile (26.1%), compared to 0.5% of straight truck drivers. However, method of compensation could not be determined in 39.4% of involvements.
- Drivers of government-owned and private company trucks are predominately paid by the hour, 68.1% and 42.9%, respectively.
- Drivers of 28.3% of Intrastate trucks and 15.9% 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	1477	95.5	240	97.2	100	96.2	2927	99.1	160	98.8	25	96.2	11	100.0	4940	97.8
Drinking	69	4.5	7	2.8	4	3.8	26	0.9	2	1.2	1	3.8	0	0.0	109	2.2
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	519	33.6	82	33.2	25	24.0	1094	37.0	67	41.4	10	38.5	1	9.1	1798	35.6
Drugs involved	22	1.4	3	1.2	2	1.9	23	0.8	1	0.6	0	0.0	0	0.0	51	1.0
Not reported	916	59.2	141	57.1	65	62.5	1637	55.4	86	53.1	15	57.7	6	54.5	2866	56.8
Reported unk	89	5.8	21	8.5	12	11.5	199	6.7	8	4.9	1	3.8	4	36.4	334	6.6
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	43	2.8	4	1.6	0	0.0	9	0.3	0	0.0	0	0.0	0	0.0	56	1.1
21-25	128	8.3	12	4.9	5	4.8	109	3.7	2	1.2	3	11.5	1	9.1	260	5.1
26-30	184	11.9	26	10.5	8	7.7	218	7.4	10	6.2	1	3.8	0	0.0	447	8.9
31-35	185	12.0	34	13.8	11	10.6	271	9.2	9	5.6	1	3.8	0	0.0	511	10.1
36-40	236	15.3	25	10.1	11	10.6	411	13.9	24	14.8	2	7.7	0	0.0	709	14.0
41-45	201	13.0	30	12.1	13	12.5	454	15.4	20	12.3	6	23.1	0	0.0	724	14.3
46-50	179	11.6	35	14.2	20	19.2	418	14.2	36	22.2	4	15.4	1	9.1	693	13.7
51-55	127	8.2	27	10.9	14	13.5	413	14.0	22	13.6	2	7.7	1	9.1	606	12.0
56-60	112	7.2	22	8.9	11	10.6	317	10.7	20	12.3	3	11.5	1	9.1	486	9.6
61-65	69	4.5	15	6.1	6	5.8	190	6.4	11	6.8	2	7.7	0	0.0	293	5.8
66-70	28	1.8	9	3.6	1	1.0	73	2.5	4	2.5	1	3.8	1	9.1	117	2.3
71-75	13	0.8	3	1.2	2	1.9	24	0.8	2	1.2	0	0.0	0	0.0	44	0.9
> 75	21	1.4	0	0.0	1	1.0	14	0.5	1	0.6	0	0.0	0	0.0	37	0.7
Unknown	20	1.3	5	2.0	1	1.0	32	1.1	1	0.6	1	3.8	6	54.5	66	1.3
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	1486	96.1	235	95.1	100	96.2	2856	96.7	159	98.1	24	92.3	5	45.5	4865	96.4
Female	40	2.6	9	3.6	3	2.9	67	2.3	2	1.2	1	3.8	0	0.0	122	2.4
Unknown	20	1.3	3	1.2	1	1.0	30	1.0	1	0.6	1	3.8	6	54.5	62	1.2
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	295	19.1	32	13.0	24	23.1	285	9.7	9	5.6	2	7.7	0	0.0	647	12.8
Shoulder belt	6	0.4	0	0.0	1	1.0	11	0.4	0	0.0	0	0.0	0	0.0	18	0.4
Lap belt	62	4.0	5	2.0	2	1.9	68	2.3	7	4.3	0	0.0	0	0.0	144	2.9
Lap and shoulder	1030	66.6	193	78.1	67	64.4	2310	78.2	131	80.9	23	88.5	3	27.3	3757	74.4
Used, type unknown	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Belt use improper	2	0.1	0	0.0	1	1.0	2	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Unknown	150	9.7	17	6.9	9	8.7	276	9.3	15	9.3	1	3.8	8	72.7	476	9.4
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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)	281	18.2	36	14.6	23	22.1	437	14.8	17	10.5	2	7.7	0	0.0	796	15.8
Incapacitating (A)	91	5.9	11	4.5	2	1.9	102	3.5	1	0.6	1	3.8	0	0.0	208	4.1
Non-incapacitating (B)	170	11.0	17	6.9	10	9.6	268	9.1	11	6.8	1	3.8	0	0.0	477	9.4
Complaint of pain (C)	175	11.3	29	11.7	7	6.7	260	8.8	15	9.3	2	7.7	0	0.0	488	9.7
No injury (O)	805	52.1	150	60.7	60	57.7	1864	63.1	117	72.2	19	73.1	8	72.7	3023	59.9
Unknown	24	1.6	4	1.6	2	1.9	22	0.7	1	0.6	1	3.8	3	27.3	57	1.1
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	199	25.0	42	20.2	93	19.5	44	9.0	75	2.5	0	0.0	453	9.0
Fire only	77	9.7	13	6.3	39	8.2	21	4.3	54	1.8	0	0.0	204	4.0
Ejection only	57	7.2	4	1.9	1	0.2	1	0.2	1	0.0	0	0.0	64	1.3
Rollover and fire	53	6.7	4	1.9	9	1.9	4	0.8	1	0.0	1	1.8	72	1.4
Rollover and ejection	157	19.7	2	1.0	1	0.2	2	0.4	0	0.0	0	0.0	162	3.2
Fire and ejection	14	1.8	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	15	0.3
Rollover, fire, and ejection	9	1.1	0	0.0	0	0.0	1	0.2	0	0.0	0	0.0	10	0.2
None	223	28.0	140	67.3	334	70.0	415	85.0	2889	95.6	22	38.6	4023	79.7
Unknown	7	0.9	2	1.0	0	0.0	0	0.0	3	0.1	34	59.6	46	0.9
Total	796	100.0	208	100.0	477	100.0	488	100.0	3023	100.0	57	100.0	5049	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	1434	92.8	228	92.3	96	92.3	2778	94.1	155	95.7	23	88.5	10	90.9	4724	93.6
Extricated	89	5.8	15	6.1	6	5.8	155	5.2	6	3.7	1	3.8	0	0.0	272	5.4
Unknown	23	1.5	4	1.6	2	1.9	20	0.7	1	0.6	2	7.7	1	9.1	53	1.0
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	379	24.5	64	25.9	26	25.0	420	14.2	19	11.7	10	38.5	0	0.0	918	18.2
2 hours	167	10.8	35	14.2	4	3.8	349	11.8	24	14.8	3	11.5	0	0.0	582	11.5
3 hours	105	6.8	14	5.7	2	1.9	216	7.3	15	9.3	0	0.0	0	0.0	352	7.0
4-5 hours	145	9.4	17	6.9	7	6.7	375	12.7	23	14.2	3	11.5	0	0.0	570	11.3
6-7 hours	80	5.2	7	2.8	7	6.7	234	7.9	22	13.6	4	15.4	0	0.0	354	7.0
8-9 hours	40	2.6	2	0.8	6	5.8	124	4.2	18	11.1	1	3.8	0	0.0	191	3.8
10-11 hours	6	0.4	1	0.4	4	3.8	36	1.2	2	1.2	0	0.0	0	0.0	49	1.0
12-18 hours	2	0.1	1	0.4	0	0.0	20	0.7	0	0.0	0	0.0	0	0.0	23	0.5
> 18 hours	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, legal	125	8.1	19	7.7	14	13.5	595	20.1	11	6.8	2	7.7	0	0.0	766	15.2
Unknown, not legal	2	0.1	2	0.8	0	0.0	20	0.7	0	0.0	0	0.0	0	0.0	24	0.5
Unknown/not applicable	494	32.0	85	34.4	34	32.7	563	19.1	28	17.3	3	11.5	11	100.0	1218	24.1
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	537	29.8	131	21.2	29	12.5	24	11.6	98	14.7	56	8.6	20	13.0	23	3.2	918	18.2
2 hours	247	13.7	95	15.4	47	20.3	30	14.5	90	13.5	58	8.9	7	4.5	8	1.1	582	11.5
3 hours	138	7.7	58	9.4	32	13.8	21	10.1	51	7.6	39	6.0	5	3.2	8	1.1	352	7.0
4-5 hours	198	11.0	86	13.9	45	19.4	35	16.9	111	16.6	85	13.0	4	2.6	6	0.8	570	11.3
6-7 hours	110	6.1	52	8.4	15	6.5	27	13.0	82	12.3	59	9.0	3	1.9	6	0.8	354	7.0
8-9 hours	59	3.3	21	3.4	10	4.3	13	6.3	50	7.5	33	5.1	1	0.6	4	0.6	191	3.8
10-11 hours	11	0.6	7	1.1	0	0.0	2	1.0	9	1.3	17	2.6	1	0.6	2	0.3	49	1.0
12-18 hours	1	0.1	4	0.6	2	0.9	1	0.5	3	0.4	7	1.1	1	0.6	4	0.6	23	0.5
> 18 hours	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.3	0	0.0	0	0.0	2	0.0
Unknown, legal	206	11.4	86	13.9	31	13.4	30	14.5	103	15.4	159	24.4	66	42.9	85	11.8	766	15.2
Unknown, not legal	0	0.0	2	0.3	2	0.9	1	0.5	3	0.4	12	1.8	3	1.9	1	0.1	24	0.5
Unknown/not applicable	293	16.3	75	12.2	19	8.2	23	11.1	67	10.0	125	19.2	43	27.9	573	79.6	1218	24.1
Total	1800	100.0	617	100.0	232	100.0	207	100.0	667	100.0	652	100.0	154	100.0	720	100.0	5049	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	456	28.0	430	14.4	0	0.0	14	19.4	5	16.1	13	8.3	918	18.2
2 hours	236	14.5	335	11.2	1	0.6	9	12.5	1	3.2	0	0.0	582	11.5
3 hours	130	8.0	211	7.1	0	0.0	7	9.7	1	3.2	3	1.9	352	7.0
4-5 hours	165	10.1	399	13.4	0	0.0	3	4.2	0	0.0	3	1.9	570	11.3
6-7 hours	99	6.1	248	8.3	0	0.0	6	8.3	0	0.0	1	0.6	354	7.0
8-9 hours	53	3.3	135	4.5	0	0.0	3	4.2	0	0.0	0	0.0	191	3.8
10-11 hours	10	0.6	39	1.3	0	0.0	0	0.0	0	0.0	0	0.0	49	1.0
12-18 hours	6	0.4	17	0.6	0	0.0	0	0.0	0	0.0	0	0.0	23	0.5
> 18 hours	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.6	2	0.0
Unknown, legal	166	10.2	570	19.1	0	0.0	8	11.1	1	3.2	21	13.4	766	15.2
Unknown, not legal	1	0.1	22	0.7	0	0.0	0	0.0	0	0.0	1	0.6	24	0.5
Unknown/not applicable	308	18.9	571	19.2	180	99.4	22	30.6	23	74.2	114	72.6	1218	24.1
Total	1630	100.0	2978	100.0	181	100.0	72	100.0	31	100.0	157	100.0	5049	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	524	15.9	342	28.3	0	0.0	14	19.4	5	16.1	33	12.7	918	18.2
2 hours	408	12.4	160	13.2	1	0.6	9	12.5	1	3.2	3	1.2	582	11.5
3 hours	242	7.3	99	8.2	0	0.0	7	9.7	1	3.2	3	1.2	352	7.0
4-5 hours	418	12.7	144	11.9	0	0.0	3	4.2	0	0.0	5	1.9	570	11.3
6-7 hours	265	8.0	80	6.6	0	0.0	6	8.3	0	0.0	3	1.2	354	7.0
8-9 hours	141	4.3	43	3.6	0	0.0	3	4.2	0	0.0	4	1.5	191	3.8
10-11 hours	42	1.3	7	0.6	0	0.0	0	0.0	0	0.0	0	0.0	49	1.0
12-18 hours	21	0.6	2	0.2	0	0.0	0	0.0	0	0.0	0	0.0	23	0.5
> 18 hours	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Unknown, legal	606	18.4	130	10.7	0	0.0	8	11.1	1	3.2	21	8.1	766	15.2
Unknown, not legal	22	0.7	2	0.2	0	0.0	0	0.0	0	0.0	0	0.0	24	0.5
Unknown/not applicable	604	18.3	201	16.6	180	99.4	22	30.6	23	74.2	188	72.3	1218	24.1
Total	3295	100.0	1210	100.0	181	100.0	72	100.0	31	100.0	260	100.0	5049	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	161	26.5	245	31.5	0	0.0	11	18.0	5	16.7	26	17.6	448	24.8
2 hours	88	14.5	105	13.5	1	0.6	7	11.5	0	0.0	2	1.4	203	11.3
3 hours	49	8.1	59	7.6	0	0.0	7	11.5	1	3.3	3	2.0	119	6.6
4-5 hours	70	11.5	85	10.9	0	0.0	3	4.9	0	0.0	4	2.7	162	9.0
6-7 hours	41	6.8	42	5.4	0	0.0	5	8.2	0	0.0	0	0.0	88	4.9
8-9 hours	17	2.8	20	2.6	0	0.0	3	4.9	0	0.0	2	1.4	42	2.3
10-11 hours	2	0.3	5	0.6	0	0.0	0	0.0	0	0.0	0	0.0	7	0.4
12-18 hours	2	0.3	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	3	0.2
> 18 hours	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
Unknown, legal	55	9.1	70	9.0	0	0.0	7	11.5	1	3.3	12	8.1	145	8.0
Unknown, not legal	4	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.2
Unknown/not applicable	117	19.3	145	18.7	179	99.4	18	29.5	23	76.7	99	66.9	581	32.2
Total	607	100.0	777	100.0	180	100.0	61	100.0	30	100.0	148	100.0	1803	100.0

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

Hours driven	Interstate		Intrastate		Personal use		Government		Rental		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1 hour	363	13.5	97	22.5	0	0.0	3	27.3	0	0.0	7	6.7	470	14.5
2 hours	320	11.9	55	12.7	0	0.0	2	18.2	1	100.0	1	1.0	379	11.7
3 hours	193	7.2	40	9.3	0	0.0	0	0.0	0	0.0	0	0.0	233	7.2
4 - 5 hours	348	13.0	59	13.7	0	0.0	0	0.0	0	0.0	1	1.0	408	12.6
6 - 7 hours	224	8.3	38	8.8	0	0.0	1	9.1	0	0.0	3	2.9	266	8.2
8 - 9 hours	124	4.6	23	5.3	0	0.0	0	0.0	0	0.0	2	1.9	149	4.6
10 - 11 hours	40	1.5	2	0.5	0	0.0	0	0.0	0	0.0	0	0.0	42	1.3
12 - 18 hours	19	0.7	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	20	0.6
> 8 hours	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Unknown, legal	551	20.5	60	13.9	0	0.0	1	9.1	0	0.0	9	8.6	621	19.2
Unknown, not legal	18	0.7	2	0.5	0	0.0	0	0.0	0	0.0	0	0.0	20	0.6
Unknown/not applicable	484	18.0	55	12.7	1	100.0	4	36.4	0	0.0	82	78.1	626	19.4
Total	2685	100.0	432	100.0	1	100.0	11	100.0	1	100.0	105	100.0	3235	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	1200	77.6	185	74.9	76	73.1	2242	75.9	124	76.5	19	73.1	4	36.4	3850	76.3
1	165	10.7	29	11.7	10	9.6	302	10.2	25	15.4	4	15.4	0	0.0	535	10.6
2	35	2.3	2	0.8	3	2.9	47	1.6	1	0.6	1	3.8	0	0.0	89	1.8
3	10	0.6	1	0.4	1	1.0	11	0.4	0	0.0	0	0.0	0	0.0	23	0.5
4	1	0.1	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Not reported	105	6.8	22	8.9	11	10.6	187	6.3	5	3.1	1	3.8	1	9.1	332	6.6
Unknown	30	1.9	8	3.2	3	2.9	161	5.5	7	4.3	1	3.8	6	54.5	216	4.3
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	1349	87.3	220	89.1	88	84.6	2588	87.6	152	93.8	22	84.6	4	36.4	4423	87.6
1	97	6.3	8	3.2	6	5.8	122	4.1	2	1.2	0	0.0	0	0.0	235	4.7
2	34	2.2	6	2.4	4	3.8	38	1.3	0	0.0	1	3.8	0	0.0	83	1.6
3	18	1.2	1	0.4	1	1.0	20	0.7	1	0.6	1	3.8	1	9.1	43	0.9
4	7	0.5	1	0.4	2	1.9	11	0.4	0	0.0	1	3.8	0	0.0	22	0.4
5	6	0.4	0	0.0	0	0.0	9	0.3	0	0.0	0	0.0	0	0.0	15	0.3
6	0	0.0	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	3	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	2	0.1	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
9	3	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
10	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
11	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Unknown	30	1.9	8	3.2	3	2.9	161	5.5	7	4.3	1	3.8	6	54.5	216	4.3
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	1201	77.7	185	74.9	82	78.8	2045	69.3	118	72.8	22	84.6	4	36.4	3657	72.4
1	237	15.3	38	15.4	12	11.5	522	17.7	29	17.9	1	3.8	0	0.0	839	16.6
2	51	3.3	11	4.5	2	1.9	153	5.2	8	4.9	1	3.8	0	0.0	226	4.5
3	20	1.3	3	1.2	4	3.8	51	1.7	0	0.0	0	0.0	1	9.1	79	1.6
4	6	0.4	2	0.8	1	1.0	14	0.5	0	0.0	0	0.0	0	0.0	23	0.5
5	0	0.0	0	0.0	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	6	0.1
7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	3.8	0	0.0	1	0.0
9	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
12	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Unknown	30	1.9	8	3.2	3	2.9	161	5.5	7	4.3	1	3.8	6	54.5	216	4.3
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	1176	76.1	197	79.8	65	62.5	2035	68.9	118	72.8	19	73.1	4	36.4	3614	71.6
1	241	15.6	32	13.0	25	24.0	486	16.5	28	17.3	4	15.4	1	9.1	817	16.2
2	56	3.6	10	4.0	4	3.8	171	5.8	2	1.2	2	7.7	0	0.0	245	4.9
3	25	1.6	0	0.0	4	3.8	56	1.9	6	3.7	0	0.0	0	0.0	91	1.8
4	10	0.6	0	0.0	3	2.9	24	0.8	1	0.6	0	0.0	0	0.0	38	0.8
5	6	0.4	0	0.0	0	0.0	13	0.4	0	0.0	0	0.0	0	0.0	19	0.4
6	1	0.1	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	6	0.1
7	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	30	1.9	8	3.2	3	2.9	161	5.5	7	4.3	1	3.8	6	54.5	216	4.3
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	11	0.7	2	0.8	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	17	0.3
Not required	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Not valid	84	5.4	12	4.9	2	1.9	59	2.0	2	1.2	0	0.0	0	0.0	159	3.1
Valid	1414	91.5	228	92.3	99	95.2	2749	93.1	155	95.7	25	96.2	5	45.5	4675	92.6
Unknown if CDL required	10	0.6	0	0.0	0	0.0	12	0.4	1	0.6	0	0.0	0	0.0	23	0.5
Unknown	26	1.7	5	2.0	3	2.9	129	4.4	4	2.5	1	3.8	6	54.5	174	3.4
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	644	41.7	99	40.1	3	2.9	32	1.1	1	0.6	5	19.2	0	0.0	784	15.5
Suspended	11	0.7	2	0.8	2	1.9	24	0.8	0	0.0	0	0.0	0	0.0	39	0.8
Revoked	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Expired	10	0.6	2	0.8	0	0.0	9	0.3	0	0.0	0	0.0	0	0.0	21	0.4
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	5	0.3	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	10	0.2
Valid	837	54.1	137	55.5	96	92.3	2735	92.6	156	96.3	19	73.1	5	45.5	3985	78.9
Learner's permit	7	0.5	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	8	0.2
Other - not valid	6	0.4	2	0.8	0	0.0	12	0.4	1	0.6	0	0.0	0	0.0	21	0.4
Unknown	26	1.7	5	2.0	3	2.9	133	4.5	4	2.5	2	7.7	6	54.5	179	3.5
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	1238	80.1	203	82.2	68	65.4	1725	58.4	36	22.2	16	61.5	3	27.3	3289	65.1
Complied	186	12.0	25	10.1	16	15.4	727	24.6	102	63.0	7	26.9	2	18.2	1065	21.1
Not complied	13	0.8	1	0.4	0	0.0	16	0.5	1	0.6	0	0.0	0	0.0	31	0.6
Compliance unknown	54	3.5	9	3.6	12	11.5	257	8.7	16	9.9	2	7.7	0	0.0	350	6.9
Unknown	55	3.6	9	3.6	8	7.7	228	7.7	7	4.3	1	3.8	6	54.5	314	6.2
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	879	56.9	157	63.6	56	53.8	1873	63.4	111	68.5	17	65.4	5	45.5	3098	61.4
<i>Physical/mental conditions</i>																
Drowsy, sleepy, asleep, fatigued	28	1.8	7	2.8	3	2.9	57	1.9	5	3.1	0	0.0	0	0.0	100	2.0
Ill, passed out, blackout	3	0.2	0	0.0	0	0.0	15	0.5	0	0.0	0	0.0	0	0.0	18	0.4
Emotional distress	1	0.1	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Alcohol, drugs, medication	61	3.9	3	1.2	4	3.8	19	0.6	0	0.0	1	3.8	0	0.0	88	1.7
Careless/inattentive	113	7.3	9	3.6	4	3.8	166	5.6	3	1.9	0	0.0	1	9.1	296	5.9
Aggressive driving/road rage	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Other physical impairment	1	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Mentally challenged	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>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
Suspended or revoked license	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	9	0.6	0	0.0	1	1.0	5	0.2	1	0.6	1	3.8	0	0.0	17	0.3
Improper loading	4	0.3	1	0.4	0	0.0	16	0.5	0	0.0	0	0.0	0	0.0	21	0.4
Improper towing	0	0.0	2	0.8	0	0.0	1	0.0	0	0.0	2	7.7	0	0.0	5	0.1
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	14	0.9	0	0.0	2	1.9	13	0.4	1	0.6	0	0.0	0	0.0	30	0.6
Improper tailing	16	1.0	3	1.2	2	1.9	73	2.5	3	1.9	0	0.0	0	0.0	97	1.9
Improper lane change	7	0.5	1	0.4	2	1.9	24	0.8	0	0.0	0	0.0	0	0.0	34	0.7
Failure to stay in lane	223	14.4	29	11.7	20	19.2	309	10.5	15	9.3	3	11.5	0	0.0	599	11.9
Driving on shoulder	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Improper entry/exit	1	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Improper start/back	8	0.5	3	1.2	1	1.0	8	0.3	0	0.0	0	0.0	0	0.0	20	0.4
Prohibited passing	2	0.1	0	0.0	0	0.0	1	0.0	1	0.6	0	0.0	0	0.0	4	0.1
Passing on wrong side	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Passing - insufficient distance	9	0.6	0	0.0	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	17	0.3
Erratic/reckless	21	1.4	3	1.2	2	1.9	34	1.2	1	0.6	0	0.0	0	0.0	61	1.2
Failure to yield	84	5.4	13	5.3	6	5.8	93	3.1	5	3.1	4	15.4	0	0.0	205	4.1
Failure to obey signs	56	3.6	5	2.0	1	1.0	76	2.6	4	2.5	0	0.0	0	0.0	142	2.8
Passing around barrier	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Fail to observe warning	1	0.1	0	0.0	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	9	0.2
Failure to signal	4	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1
Driving too fast	129	8.3	12	4.9	14	13.5	270	9.1	8	4.9	1	3.8	0	0.0	434	8.6
Under minimum speed	1	0.1	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	6	0.1
Wrong lane turn	1	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Other improper turn	26	1.7	3	1.2	1	1.0	27	0.9	2	1.2	0	0.0	0	0.0	59	1.2
Wrong side of road	8	0.5	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	13	0.3
Operator inexperience	3	0.2	1	0.4	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	8	0.2
Unfamiliar with roadway	2	0.1	0	0.0	0	0.0	9	0.3	0	0.0	0	0.0	0	0.0	11	0.2
Stopped in roadway	12	0.8	0	0.0	1	1.0	9	0.3	3	1.9	0	0.0	0	0.0	25	0.5
Underriding a parked truck	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Locked wheel	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Over correcting	44	2.8	2	0.8	3	2.9	32	1.1	1	0.6	0	0.0	0	0.0	82	1.6
On/Off or on/into vehicle	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0

(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	12	0.8	2	0.8	0	0.0	57	1.9	5	3.1	0	0.0	0	0.0	76	1.5
Glare	8	0.5	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	10	0.2
Curve, hill, design features	6	0.4	3	1.2	0	0.0	10	0.3	0	0.0	0	0.0	0	0.0	19	0.4
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	3	0.2	1	0.4	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	5	0.1
Moving vehicle	7	0.5	0	0.0	0	0.0	4	0.1	1	0.6	0	0.0	0	0.0	12	0.2
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	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Obstructing angles	1	0.1	1	0.4	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Other obstruction	1	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
<i>Avoiding, swerving due to</i>																
Severe crosswind	1	0.1	1	0.4	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Slippery or loose surface	0	0.0	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Tire blowout or flat	9	0.6	0	0.0	0	0.0	5	0.2	1	0.6	0	0.0	0	0.0	15	0.3
Debris or objects in road	3	0.2	1	0.4	0	0.0	5	0.2	1	0.6	0	0.0	0	0.0	10	0.2
Live animal in road	1	0.1	0	0.0	0	0.0	1	0.0	1	0.6	0	0.0	0	0.0	3	0.1
Vehicle in road	4	0.3	1	0.4	1	1.0	11	0.4	2	1.2	0	0.0	0	0.0	19	0.4
Phantom vehicle	4	0.3	0	0.0	1	1.0	6	0.2	0	0.0	0	0.0	0	0.0	11	0.2
Pedestrian or pedalcyclist	0	0.0	1	0.4	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Ice, snow, slush, water, sand, dirt, oil, wet leaves	21	1.4	3	1.2	2	1.9	53	1.8	5	3.1	1	3.8	0	0.0	85	1.7
Trailer fishtailing or swaying	0	0.0	1	0.4	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	5	0.1
<i>Other misc. factors</i>																
Restriction noncompliance	13	0.8	2	0.8	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	23	0.5
Multi-state license/record	4	0.3	0	0.0	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	10	0.2
Hit and run driver	7	0.5	2	0.8	3	2.9	28	0.9	0	0.0	0	0.0	5	45.5	45	0.9
Nontraffic violation charged	14	0.9	1	0.4	1	1.0	20	0.7	0	0.0	0	0.0	0	0.0	36	0.7
Other nonmoving viol.	30	1.9	8	3.2	2	1.9	55	1.9	2	1.2	0	0.0	0	0.0	97	1.9
<i>Possible distractions</i>																
Cellular phone present	35	2.3	5	2.0	2	1.9	89	3.0	3	1.9	0	0.0	0	0.0	134	2.7
Cellular phone in use	3	0.2	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	7	0.1
On-board navigation system	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Head-up display	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Unknown	18	1.2	3	1.2	0	0.0	26	0.9	2	1.2	0	0.0	1	9.1	50	1.0
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	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	25	1.6	6	2.4	7	6.7	311	10.5	7	4.3	2	7.7	0	0.0	358	7.1
By the hour	616	39.8	74	30.0	11	10.6	392	13.3	21	13.0	5	19.2	0	0.0	1119	22.2
By the mile	7	0.5	8	3.2	16	15.4	771	26.1	32	19.8	3	11.5	0	0.0	837	16.6
By the hour and mile	1	0.1	1	0.4	0	0.0	29	1.0	20	12.3	1	3.8	0	0.0	52	1.0
By the load	38	2.5	13	5.3	10	9.6	325	11.0	20	12.3	2	7.7	0	0.0	408	8.1
Other	135	8.7	13	5.3	3	2.9	125	4.2	7	4.3	4	15.4	0	0.0	287	5.7
Unknown	724	46.8	132	53.4	57	54.8	1000	33.9	55	34.0	9	34.6	11	100.0	1988	39.4
Total	1546	100.0	247	100.0	104	100.0	2953	100.0	162	100.0	26	100.0	11	100.0	5049	100.0

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

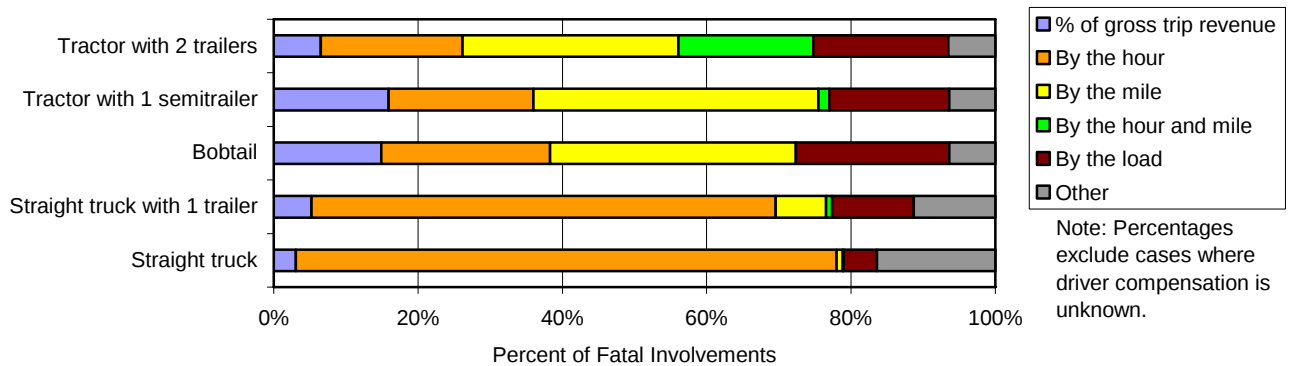
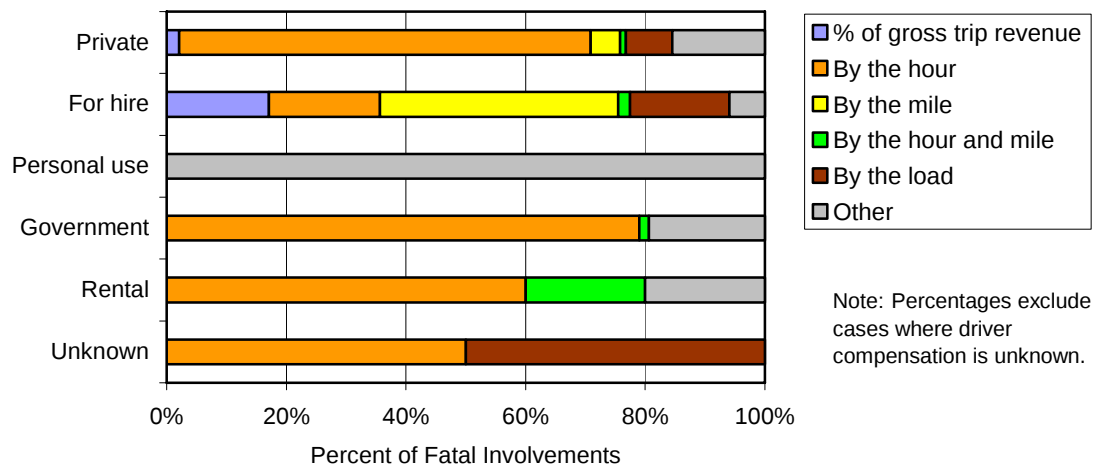


Table 4-24
Fatal Truck Involvements by Driver Compensation and Operating Authority

Driver compensation	Private		For hire		Personal use		Government		Rental		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
% of gross trip revenue	21	1.3	337	11.3	0	0.0	0	0.0	0	0.0	0	0.0	358	7.1
By the hour	699	42.9	367	12.3	0	0.0	49	68.1	3	9.7	1	0.6	1119	22.2
By the mile	50	3.1	787	26.4	0	0.0	0	0.0	0	0.0	0	0.0	837	16.6
By the hour and mile	10	0.6	40	1.3	0	0.0	1	1.4	1	3.2	0	0.0	52	1.0
By the load	79	4.8	328	11.0	0	0.0	0	0.0	0	0.0	1	0.6	408	8.1
Other	157	9.6	117	3.9	0	0.0	12	16.7	1	3.2	0	0.0	287	5.7
Unknown	614	37.7	1002	33.6	181	100.0	10	13.9	26	83.9	155	98.7	1988	39.4
Total	1630	100.0	2978	100.0	181	100.0	72	100.0	31	100.0	157	100.0	5049	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 2007. 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 35.7% of all trucks involved in a fatal traffic accident in 2007.
- 35.5% of straight trucks were Class 8 (over 33,000 lbs.) Gross Vehicle Weight Rating (GVWR), and 27.1% were Class 3 (10,001-14,000 lbs.).
- 40.5% of straight trucks were empty at the time of the accident; while solids in bulk was the most frequent cargo type, accounting for 17.4%.
- 56.0% of straight truck configurations involved in a fatal traffic accident had two axles, 24.1% had three axles (including the trailer), and one straight truck combination had six axles on the power unit and four axles on the trailer.
- 31.4% of straight trucks were operated by a private, intrastate carrier; 22.1% by a private, interstate carrier; and only 11.1% by a for-hire, interstate carrier.
- 62.6% of straight trucks were on a local trip (within 50 miles of base) at the time of the accident.
- 318 straight truck drivers were fatally injured in a traffic accident; 4.7% of the fatalities occurred when the vehicle hit an object in the road, 49.7% occurred in ran-off-road crashes, and 8.5% were the result of an untripped rollover.

Note: 577 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>	1546	85.7
<i>Straight truck, 1 trailer</i>		
Straight + full trailer	43	2.4
Straight + other	139	7.7
Straight + other, gooseneck hitch	65	3.6
<i>Subtotal</i>	247	13.7
<i>Other straight combinations</i>		
Wrecker + tow	8	0.4
Straight, unknown if pulling trailer	2	0.1
<i>Subtotal</i>	10	0.6
Total straight trucks	1803	100.0

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

Cargo body style	N	%
Van	316	17.5
Open top van	1	0.1
Refrigerated van	42	2.3
Flatbed	143	7.9
Flatbed with equipment	41	2.3
Flatbed with sides	35	1.9
Pole/logging	8	0.4
Tank: liquid/gas	82	4.5
Tank: dry	1	0.1
Auto carrier	17	0.9
Dump	356	19.7
Hopper bottom	1	0.1
Garbage/refuse	108	6.0
Concrete mixer	61	3.4
Other	577	32.0
Unknown	14	0.8
Total	1803	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		Other*		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Class 3: 10,001-14,000	61	17.0	66	30.1	2	2.4	12	3.4	0	0.0	0	0.0	345	57.3	3	21.4	489	27.1
Class 4: 14,001-16,000	45	12.5	33	15.1	2	2.4	1	0.3	0	0.0	0	0.0	44	7.3	2	14.3	127	7.0
Class 5: 16,001-19,500	24	6.7	21	9.6	3	3.6	10	2.8	1	0.9	0	0.0	33	5.5	0	0.0	92	5.1
Class 6: 19,501-26,000	151	42.1	36	16.4	4	4.8	10	2.8	3	2.8	0	0.0	65	10.8	2	14.3	271	15.0
Class 7: 26,001-33,000	54	15.0	26	11.9	17	20.5	18	5.0	7	6.5	0	0.0	35	5.8	3	21.4	160	8.9
Class 8: 33,001 or more	19	5.3	35	16.0	55	66.3	296	82.9	96	88.9	61	100.0	74	12.3	4	28.6	640	35.5
Unknown	5	1.4	2	0.9	0	0.0	10	2.8	1	0.9	0	0.0	6	1.0	0	0.0	24	1.3
Total	359	100.0	219	100.0	83	100.0	357	100.0	108	100.0	61	100.0	602	100.0	14	100.0	1803	100.0

* Note: The Other category includes eight pole/logging trucks and seventeen 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	74	23.4	1	100.0	8	19.0	73	51.0	15	36.6	5	14.3	4	50.0	23	28.0	1	100.0
General freight	155	49.1	0	0.0	1	2.4	4	2.8	0	0.0	8	22.9	0	0.0	0	0.0	0	0.0
Household goods	22	7.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Building materials	0	0.0	0	0.0	0	0.0	6	4.2	2	4.9	2	5.7	0	0.0	0	0.0	0	0.0
Metal (coils, sheets)	2	0.6	0	0.0	0	0.0	2	1.4	1	2.4	0	0.0	0	0.0	0	0.0	0	0.0
Heavy machinery	1	0.3	0	0.0	0	0.0	6	4.2	1	2.4	2	5.7	0	0.0	0	0.0	0	0.0
Large objects	2	0.6	0	0.0	0	0.0	7	4.9	1	2.4	4	11.4	0	0.0	0	0.0	0	0.0
Motor vehicles	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
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	10	12.2	0	0.0
Solids in bulk	12	3.8	0	0.0	0	0.0	0	0.0	1	2.4	6	17.1	0	0.0	0	0.0	0	0.0
Liquids in bulk	0	0.0	0	0.0	0	0.0	0	0.0	1	2.4	0	0.0	0	0.0	48	58.5	0	0.0
Explosives	0	0.0	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Logs/poles/lumber	1	0.3	0	0.0	0	0.0	4	2.8	4	9.8	0	0.0	4	50.0	0	0.0	0	0.0
Refrigerated foods	0	0.0	0	0.0	30	71.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Farm products	6	1.9	0	0.0	1	2.4	3	2.1	1	2.4	1	2.9	0	0.0	0	0.0	0	0.0
Live animals	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other	23	7.3	0	0.0	0	0.0	30	21.0	14	34.1	7	20.0	0	0.0	0	0.0	0	0.0
Cargo, unknown type	3	0.9	0	0.0	1	2.4	1	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Unknown	14	4.4	0	0.0	1	2.4	6	4.2	0	0.0	0	0.0	0	0.0	1	1.2	0	0.0
Total	316	100.0	1	100.0	42	100.0	143	100.0	41	100.0	35	100.0	8	100.0	82	100.0	1	100.0

(Continued on next page.)

Table 5-4 (continued)

Cargo Type	Auto carrier		Dump		Hopper bottom		Refuse		Concrete mixer		Other		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Empty	5	29.4	173	48.6	0	0.0	29	26.9	24	39.3	296	51.3	0	0.0	731	40.5
General freight	0	0.0	2	0.6	0	0.0	0	0.0	0	0.0	5	0.9	0	0.0	175	9.7
Household goods	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.5	0	0.0	25	1.4
Building materials	0	0.0	2	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	12	0.7
Metal (coils, sheets)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	0.3
Heavy machinery	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	1.0	0	0.0	16	0.9
Large objects	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.3	0	0.0	16	0.9
Motor vehicles	10	58.8	0	0.0	0	0.0	0	0.0	0	0.0	15	2.6	0	0.0	25	1.4
Piggyback/towaway	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	1.2	0	0.0	7	0.4
Gases in bulk	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	10	0.6
Solids in bulk	0	0.0	162	45.5	0	0.0	73	67.6	34	55.7	24	4.2	1	7.1	313	17.4
Liquids in bulk	0	0.0	0	0.0	0	0.0	0	0.0	1	1.6	7	1.2	0	0.0	57	3.2
Explosives	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
Logs/poles/lumber	0	0.0	3	0.8	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0	17	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	30	1.7
Farm products	0	0.0	2	0.6	1	100.0	0	0.0	0	0.0	6	1.0	0	0.0	21	1.2
Live animals	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0	2	0.1
Other	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	161	27.9	0	0.0	235	13.0
Cargo, unknown type	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0	6	0.3
Unknown	2	11.8	12	3.4	0	0.0	6	5.6	2	3.3	42	7.3	13	92.9	99	5.5
Total	17	100.0	356	100.0	1	100.0	108	100.0	61	100.0	577	100.0	14	100.0	1803	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		1004	56.0
3		416	23.2
4		90	5.0
5		23	1.3
6		8	0.4
7		1	0.1
2	1	17	0.9
2	2	140	7.8
2	3	9	0.5
3	1	2	0.1
3	2	52	2.9
3	3	3	0.2
3	4	3	0.2
4	2	4	0.0
4	3	1	0.1
4	4	5	0.3
4	5	1	0.0
5	2	1	0.1
5	3	1	0.1
6	4	1	0.1
Unknown		11	0.6
Total		1793	100.0

Note: The 10 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		Other*		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Interstate private	104	29.0	68	31.1	27	32.5	51	14.3	26	24.1	18	29.5	104	17.3	1	7.1	399	22.1
Interstate for-hire	77	21.4	7	3.2	14	16.9	41	11.5	3	2.8	1	1.6	57	9.5	1	7.1	201	11.1
Intrastate private	93	25.9	104	47.5	28	33.7	104	29.1	57	52.8	38	62.3	143	23.8	0	0.0	567	31.4
Intrastate for-hire	28	7.8	8	3.7	9	10.8	97	27.2	8	7.4	2	3.3	49	8.1	1	7.1	202	11.2
Personal use only	0	0.0	10	4.6	0	0.0	0	0.0	0	0.0	0	0.0	170	28.2	0	0.0	180	10.0
Government owned	2	0.6	3	1.4	3	3.6	29	8.1	9	8.3	0	0.0	14	2.3	1	7.1	61	3.4
Daily rental	28	7.8	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0	30	1.7
Unknown	27	7.5	18	8.2	2	2.4	35	9.8	5	4.6	2	3.3	64	10.6	10	71.4	163	9.0
Total	359	100.0	219	100.0	83	100.0	357	100.0	108	100.0	61	100.0	602	100.0	14	100.0	1803	100.0

* Note: The Other category includes eight pole/logging trucks and seventeen 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		Other*		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Local	182	50.7	149	68.0	53	63.9	302	84.6	89	82.4	56	91.8	297	49.3	0	0.0	1128	62.6
51-100 miles	67	18.7	30	13.7	19	22.9	24	6.7	7	6.5	2	3.3	36	6.0	0	0.0	185	10.3
101-150	20	5.6	3	1.4	2	2.4	1	0.3	0	0.0	0	0.0	13	2.2	0	0.0	39	2.2
151-200	11	3.1	3	1.4	2	2.4	0	0.0	0	0.0	0	0.0	13	2.2	0	0.0	29	1.6
201-500	23	6.4	6	2.7	2	2.4	3	0.8	0	0.0	0	0.0	15	2.5	0	0.0	49	2.7
Over 500	10	2.8	2	0.9	1	1.2	0	0.0	0	0.0	0	0.0	12	2.0	0	0.0	25	1.4
Unknown over-the-road distance	9	2.5	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0	5	0.8	0	0.0	15	0.8
Unknown	37	10.3	26	11.9	4	4.8	26	7.3	12	11.1	3	4.9	211	35.0	14	100.0	333	18.5
Total	359	100.0	219	100.0	83	100.0	357	100.0	108	100.0	61	100.0	602	100.0	14	100.0	1803	100.0

* Note: The Other category includes eight pole/logging trucks and seventeen 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		Other*		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Interstate	78	21.7	29	13.2	7	8.4	33	9.2	4	3.7	3	4.9	84	14.0	1	7.1	239	13.3
US highway	73	20.3	46	21.0	10	12.0	69	19.3	11	10.2	7	11.5	123	20.4	2	14.3	341	18.9
State highway	102	28.4	81	37.0	33	39.8	140	39.2	33	30.6	21	34.4	218	36.2	4	28.6	632	35.1
County road	43	12.0	36	16.4	20	24.1	54	15.1	21	19.4	8	13.1	87	14.5	2	14.3	271	15.0
Township	11	3.1	6	2.7	1	1.2	15	4.2	9	8.3	2	3.3	17	2.8	1	7.1	62	3.4
Municipality	47	13.1	16	7.3	11	13.3	33	9.2	25	23.1	16	26.2	42	7.0	4	28.6	194	10.8
Frontage road	2	0.6	0	0.0	0	0.0	2	0.6	1	0.9	0	0.0	4	0.7	0	0.0	9	0.5
Other	2	0.6	4	1.8	1	1.2	11	3.1	4	3.7	4	6.6	27	4.5	0	0.0	53	2.9
Unknown	1	0.3	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
Total	359	100.0	219	100.0	83	100.0	357	100.0	108	100.0	61	100.0	602	100.0	14	100.0	1803	100.0

* Note: The Other category includes eight pole/logging trucks and seventeen 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		Other*		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Urban	183	51.0	83	37.9	31	37.3	137	38.4	59	54.6	35	57.4	216	35.9	11	78.6	755	41.9
Rural	176	49.0	136	62.1	52	62.7	219	61.3	49	45.4	25	41.0	383	63.6	3	21.4	1043	57.8
Unknown	0	0.0	0	0.0	0	0.0	1	0.3	0	0.0	1	1.6	3	0.5	0	0.0	5	0.3
Total	359	100.0	219	100.0	83	100.0	357	100.0	108	100.0	61	100.0	602	100.0	14	100.0	1803	100.0

* Note: The Other category includes eight pole/logging trucks and seventeen 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		Other*		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Daylight	242	67.4	173	79.0	68	81.9	306	85.7	83	76.9	59	96.7	381	63.3	9	64.3	1321	73.3
Dark	69	19.2	29	13.2	6	7.2	32	9.0	10	9.3	1	1.6	137	22.8	0	0.0	284	15.8
Dark but lighted	34	9.5	9	4.1	8	9.6	12	3.4	11	10.2	1	1.6	61	10.1	4	28.6	140	7.8
Dawn	10	2.8	5	2.3	0	0.0	7	2.0	3	2.8	0	0.0	10	1.7	1	7.1	36	2.0
Dusk	3	0.8	2	0.9	1	1.2	0	0.0	1	0.9	0	0.0	12	2.0	0	0.0	19	1.1
Unknown	1	0.3	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0	3	0.2
Total	359	100.0	219	100.0	83	100.0	357	100.0	108	100.0	61	100.0	602	100.0	14	100.0	1803	100.0

* Note: The Other category includes eight pole/logging trucks and seventeen 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	158	49.7	7	6.9	9	4.8	3	1.5	8	0.8	0	0.0	185	10.3
Hit object in road	15	4.7	2	2.0	1	0.5	4	1.9	160	16.7	3	10.3	185	10.3
<i>Same direction, same trafficway</i>														
Rearend, truck striking	21	6.6	4	3.9	10	5.3	7	3.4	28	2.9	0	0.0	70	3.9
Rearend, truck struck	8	2.5	1	1.0	15	8.0	23	11.2	113	11.8	9	31.0	169	9.4
Sideswipe, in other's lane	5	1.6	1	1.0	1	0.5	2	1.0	9	0.9	0	0.0	18	1.0
Sideswipe, in truck's lane	5	1.6	2	2.0	3	1.6	2	1.0	20	2.1	0	0.0	32	1.8
<i>Opposite direction, same trafficway</i>														
Head-on, in other's lane	15	4.7	7	6.9	4	2.1	7	3.4	13	1.4	0	0.0	46	2.6
Head-on, in truck's lane	15	4.7	27	26.5	48	25.5	34	16.5	88	9.2	2	6.9	214	11.9
Sideswipe, in other's lane	8	2.5	4	3.9	3	1.6	7	3.4	10	1.0	0	0.0	32	1.8
Sideswipe, in truck's lane	2	0.6	10	9.8	19	10.1	16	7.8	66	6.9	0	0.0	113	6.3
<i>Change trafficway, one vehicle turning</i>														
Truck turn across path	5	1.6	1	1.0	3	1.6	7	3.4	63	6.6	0	0.0	79	4.4
Other turn across path	4	1.3	9	8.8	12	6.4	26	12.6	87	9.1	2	6.9	140	7.8
<i>Intersecting paths, both going straight</i>														
Truck into side of other	9	2.8	13	12.7	25	13.3	32	15.5	93	9.7	2	6.9	174	9.7
Other into side of truck	7	2.2	6	5.9	9	4.8	6	2.9	36	3.8	0	0.0	64	3.5
<i>Other accident types</i>														
Truck backed into other	0	0.0	0	0.0	1	0.5	0	0.0	11	1.1	1	3.4	13	0.7
Untripped roll	27	8.5	1	1.0	3	1.6	0	0.0	0	0.0	0	0.0	31	1.7
No impact	1	0.3	0	0.0	0	0.0	1	0.5	0	0.0	0	0.0	2	0.1
Other	13	4.1	7	6.9	22	11.7	29	14.1	155	16.1	10	34.5	236	13.1
Total	318	100.0	102	100.0	188	100.0	206	100.0	960	100.0	29	100.0	1803	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		Other*		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Not applicable	90	25.1	55	25.1	21	25.3	77	21.6	36	33.3	23	37.7	166	27.6	5	35.7	473	26.2
Rear-end	80	22.3	35	16.0	8	9.6	49	13.7	13	12.0	4	6.6	89	14.8	0	0.0	278	15.4
Head-on	52	14.5	38	17.4	16	19.3	71	19.9	15	13.9	12	19.7	91	15.1	1	7.1	296	16.4
Front-to-side: same direction	13	3.6	8	3.7	1	1.2	8	2.2	1	0.9	1	1.6	17	2.8	1	7.1	50	2.8
Front-to-side: opposite direction	32	8.9	16	7.3	5	6.0	29	8.1	15	13.9	4	6.6	49	8.1	0	0.0	150	8.3
Front-to-side: right angle	65	18.1	49	22.4	25	30.1	90	25.2	25	23.1	13	21.3	143	23.8	4	28.6	414	23.0
Front-to-side: unknown direction	2	0.6	1	0.5	0	0.0	4	1.1	0	0.0	0	0.0	5	0.8	0	0.0	12	0.7
Sideswipe: same direction	9	2.5	7	3.2	2	2.4	14	3.9	1	0.9	1	1.6	11	1.8	2	14.3	47	2.6
Sideswipe: opposite direction	11	3.1	6	2.7	5	6.0	12	3.4	1	0.9	3	4.9	16	2.7	1	7.1	55	3.1
Rear-to-side	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	0.8	0	0.0	6	0.3
Other	2	0.6	1	0.5	0	0.0	3	0.8	1	0.9	0	0.0	5	0.8	0	0.0	12	0.7
Unknown	2	0.6	3	1.4	0	0.0	0	0.0	0	0.0	0	0.0	5	0.8	0	0.0	10	0.6
Total	359	100.0	219	100.0	83	100.0	357	100.0	108	100.0	61	100.0	602	100.0	14	100.0	1803	100.0

* Note: The Other category includes eight pole/logging trucks and seventeen 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		Other*		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Fatal injury (K)	57	15.9	45	20.5	18	21.7	51	14.3	12	11.1	8	13.1	127	21.1	0	0.0	318	17.6
Incapacitating (A)	23	6.4	19	8.7	2	2.4	17	4.8	3	2.8	3	4.9	33	5.5	2	14.3	102	5.7
Non-incapacitating (B)	35	9.7	19	8.7	7	8.4	39	10.9	10	9.3	8	13.1	70	11.6	0	0.0	188	10.4
Complaint of pain (C)	48	13.4	30	13.7	12	14.5	35	9.8	9	8.3	5	8.2	66	11.0	1	7.1	206	11.4
No injury (O)	193	53.8	101	46.1	42	50.6	210	58.8	71	65.7	37	60.7	297	49.3	9	64.3	960	53.2
Unknown	3	0.8	5	2.3	2	2.4	5	1.4	3	2.8	0	0.0	9	1.5	2	14.3	29	1.6
Total	359	100.0	219	100.0	83	100.0	357	100.0	108	100.0	61	100.0	602	100.0	14	100.0	1803	100.0

* Note: The Other category includes eight pole/logging trucks and seventeen 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	73	23.0	21	20.6	38	20.2	21	10.2	31	3.2	0	0.0	184	10.2
Fire only	14	4.4	1	1.0	2	1.1	5	2.4	4	0.4	0	0.0	26	1.4
Ejection only	27	8.5	3	2.9	1	0.5	1	0.5	0	0.0	0	0.0	32	1.8
Rollover and fire	11	3.5	2	2.0	3	1.6	1	0.5	0	0.0	0	0.0	17	0.9
Rollover & ejection	81	25.5	2	2.0	1	0.5	1	0.5	0	0.0	0	0.0	85	4.7
Fire & ejection	2	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
Rollover, fire & ejection	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
None	107	33.6	72	70.6	143	76.1	177	85.9	924	96.3	8	27.6	1431	79.4
Unknown	2	0.6	1	1.0	0	0.0	0	0.0	1	0.1	21	72.4	25	1.4
Total	318	100.0	102	100.0	188	100.0	206	100.0	960	100.0	29	100.0	1803	100.0

Tractors

This section provides descriptive statistics on tractor combinations involved in a fatal traffic accident in 2007. 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 3,235 of the 5,049 trucks (64.1%) involved in a fatal accident in 2007.
- 94.7% of the power units in tractor combinations were Class 8 (over 33,000 lbs.) Gross Vehicle Weight Rating (GVWR).
- 27.0% of tractor combinations were empty at the time of the accident; while the most common cargo was general freight with 29.1% of tractor involvements.
- 90.3% of tractor-semitrailer configurations consisted of a three-axle tractor pulling a two-axle trailer. 51.2% of doubles (two trailers) consisted of a two-axle tractor with a one-axle first trailer and a two-axle second trailer.
- 70.4% of tractor combinations were operated by for-hire, interstate carriers; 11.8% of tractors were operated by private, interstate carriers.
- 20.8% of tractor combinations were on a local trip (within 50 miles of base) at the time of the accident; 19.4% were on a trip over 500 miles.
- 478 tractor drivers were fatally injured in a traffic accident; 55.3% of the fatalities occurred in single vehicle crashes; 6.3% involved hitting an object in the road, while 49.0% were ran-off-road crashes.

Configuration

Table 6-1
Fatal Truck Involvements by Tractor Configuration

Configuration	N	%
<i>Tractor, no trailers</i>		
Bobtail tractor	94	2.9
Tractor carrying cargo	10	0.3
<i>Subtotal</i>	104	3.2
<i>Tractor, 1 trailer</i>		
Tractor and semitrailer	2953	91.3
Tractor + other (nonsemitrailer)	7	0.2
Tractor + full trailer	1	0.0
Tractor + gooseneck + other	1	0.0
<i>Subtotal</i>	2962	91.6
<i>Tractor, 2 trailers</i>		
Double with A dolly	104	3.2
Double, B train	4	0.1
Double with C dolly	3	0.1
Double with unknown dolly	4	0.1
Tractor + semitrailer + full trailer	43	1.3
Tractor + semitrailer + other	2	0.1
Tractor + semitrailer + unknown	1	0.0
Tractor + ballhitch + 2 other trailers	1	0.0
<i>Subtotal</i>	162	5.0
<i>Tractor, 3 trailers</i>		
Triple with A dollies	2	0.1
<i>Subtotal</i>	2	0.1
<i>Other tractor combinations</i>		
Tractor + jeep + semitrailer	3	0.1
Tractor + jeep + semitrailer + other	1	0.0
Tractor + 3 saddlemount tractors	1	0.0
<i>Subtotal</i>	5	0.2
<i>Total tractors</i>	3235	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	104	100.0	0	0.0	0	0.0	0	0.0	0	0.0	104	3.2
Van	0	0.0	1213	41.0	95	58.6	2	100.0	0	0.0	1310	40.5
Open top van	0	0.0	38	1.3	0	0.0	0	0.0	0	0.0	38	1.2
Refrigerated van	0	0.0	389	13.1	2	1.2	0	0.0	0	0.0	391	12.1
Livestock carrier	0	0.0	38	1.3	0	0.0	0	0.0	0	0.0	38	1.2
Flatbed	0	0.0	405	13.7	18	11.1	0	0.0	0	0.0	423	13.1
Lowboy	0	0.0	50	1.7	1	0.6	0	0.0	4	80.0	55	1.7
Flatbed with equipment	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Flatbed with sides	0	0.0	19	0.6	1	0.6	0	0.0	0	0.0	20	0.6
Pole/logging	0	0.0	94	3.2	1	0.6	0	0.0	0	0.0	95	2.9
Tank: liquid/gaseous	0	0.0	269	9.1	5	3.1	0	0.0	0	0.0	274	8.5
Tank: dry bulk	0	0.0	46	1.6	11	6.8	0	0.0	0	0.0	57	1.8
Auto carrier	0	0.0	10	0.3	0	0.0	0	0.0	0	0.0	10	0.3
Dump	0	0.0	227	7.7	6	3.7	0	0.0	0	0.0	233	7.2
Hopper bottom	0	0.0	84	2.8	19	11.7	0	0.0	0	0.0	103	3.2
Garbage/refuse	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	6	0.2
Other	0	0.0	58	2.0	3	1.9	0	0.0	1	20.0	62	1.9
Unknown	0	0.0	15	0.5	0	0.0	0	0.0	0	0.0	15	0.5
Total	104	100.0	2962	100.0	162	100.0	2	100.0	5	100.0	3235	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	94	90.4	755	25.5	24	14.8	1	50.0	1	20.0	875	27.0
General freight	0	0.0	853	28.8	86	53.1	1	50.0	0	0.0	940	29.1
Household goods	0	0.0	12	0.4	0	0.0	0	0.0	0	0.0	12	0.4
Building materials	0	0.0	43	1.5	0	0.0	0	0.0	0	0.0	43	1.3
Metal (coils, sheets)	0	0.0	106	3.6	0	0.0	0	0.0	0	0.0	106	3.3
Heavy machinery	0	0.0	56	1.9	0	0.0	0	0.0	3	60.0	59	1.8
Large objects	0	0.0	40	1.4	5	3.1	0	0.0	0	0.0	45	1.4
Motor vehicles	0	0.0	11	0.4	0	0.0	0	0.0	0	0.0	11	0.3
Piggyback/towaway	10	9.6	0	0.0	0	0.0	0	0.0	0	0.0	10	0.3
Gases in bulk	0	0.0	9	0.3	0	0.0	0	0.0	0	0.0	9	0.3
Solids in bulk	0	0.0	313	10.6	27	16.7	0	0.0	0	0.0	340	10.5
Liquids in bulk	0	0.0	164	5.5	3	1.9	0	0.0	0	0.0	167	5.2
Explosives	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Logs/poles/lumber	0	0.0	118	4.0	3	1.9	0	0.0	0	0.0	121	3.7
Refrigerated foods	0	0.0	262	8.8	1	0.6	0	0.0	0	0.0	263	8.1
Mobile home	0	0.0	7	0.2	0	0.0	0	0.0	0	0.0	7	0.2
Farm products	0	0.0	40	1.4	5	3.1	0	0.0	0	0.0	45	1.4
Live animals	0	0.0	25	0.8	0	0.0	0	0.0	0	0.0	25	0.8
Other	0	0.0	6	0.2	1	0.6	0	0.0	0	0.0	7	0.2
Cargo, unknown type	0	0.0	22	0.7	3	1.9	0	0.0	0	0.0	25	0.8
Saddlemount tractor	0	0.0	0	0.0	0	0.0	0	0.0	1	20.0	1	0.0
Unknown	0	0.0	116	3.9	4	2.5	0	0.0	0	0.0	120	3.7
Total	104	100.0	2962	100.0	162	100.0	2	100.0	5	100.0	3235	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	94	90.4	261	19.9	19	50.0	62	15.9	15	39.5	106	25.1	19	34.5	0	0.0	6	30.0	27	28.4
General freight	0	0.0	851	65.0	1	2.6	44	11.3	1	2.6	39	9.2	0	0.0	1	100.0	2	10.0	0	0.0
Household goods	0	0.0	12	0.9	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	9	0.7	0	0.0	0	0.0	0	0.0	33	7.8	0	0.0	0	0.0	0	0.0	0	0.0
Metal (coils, sheets)	0	0.0	10	0.8	0	0.0	0	0.0	0	0.0	82	19.4	3	5.5	0	0.0	9	45.0	1	1.1
Heavy machinery	0	0.0	5	0.4	0	0.0	0	0.0	0	0.0	26	6.1	26	47.3	0	0.0	0	0.0	0	0.0
Large objects	0	0.0	5	0.4	0	0.0	0	0.0	0	0.0	32	7.6	5	9.1	0	0.0	1	5.0	0	0.0
Motor vehicles	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0	2	0.5	1	1.8	0	0.0	0	0.0	0	0.0
Piggyback/towaway	10	9.6	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	0	0.0	0	0.0	0	0.0
Solids in bulk	0	0.0	45	3.4	15	39.5	7	1.8	0	0.0	16	3.8	1	1.8	0	0.0	1	5.0	1	1.1
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
Explosives	0	0.0	4	0.3	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	4	0.3	0	0.0	0	0.0	0	0.0	50	11.8	0	0.0	0	0.0	1	5.0	64	67.4
Refrigerated foods	0	0.0	0	0.0	1	2.6	261	66.8	1	2.6	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	10	0.8	1	2.6	8	2.0	0	0.0	17	4.0	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	21	55.3	2	0.5	0	0.0	0	0.0	0	0.0	0	0.0
Other	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0	4	0.9	0	0.0	0	0.0	0	0.0	0	0.0
Cargo, unknown type	0	0.0	20	1.5	0	0.0	1	0.3	0	0.0	4	0.9	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	70	5.3	1	2.6	8	2.0	0	0.0	10	2.4	0	0.0	0	0.0	0	0.0	2	2.1
Total	104	100.0	1310	100.0	38	100.0	391	100.0	38	100.0	423	100.0	55	100.0	1	100.0	20	100.0	95	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	93	33.9	18	31.6	4	40.0	90	38.6	41	39.8	2	33.3	16	25.8	2	13.3	875	27.0
General freight	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.6	0	0.0	940	29.1
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	12	0.4
Building materials	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.6	0	0.0	43	1.3
Metal (coils, sheets)	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	106	3.3
Heavy machinery	1*	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.6	0	0.0	59	1.8
Large objects	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	16.7	1	1.6	0	0.0	45	1.4
Motor vehicles	0	0.0	0	0.0	6	60.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	11	0.3
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	10	0.3
Gases in bulk	9	3.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	9	0.3
Solids in bulk	0	0.0	39	68.4	0	0.0	137	58.8	57	55.3	2	33.3	19	30.6	0	0.0	340	10.5
Liquids in bulk	167	60.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	167	5.2
Explosives	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1
Logs/poles/lumber	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	3.2	0	0.0	121	3.7
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	263	8.1
Mobile home	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	11.3	0	0.0	7	0.2
Farm products	0	0.0	0	0.0	0	0.0	1	0.4	4	3.9	0	0.0	4	6.5	0	0.0	45	1.4
Live animals	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	3.2	0	0.0	25	0.8
Other	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.6	0	0.0	7	0.2
Cargo, unknown type	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	25	0.8
Saddlemount tractor	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.6	0	0.0	1	0.0
Unknown	4	1.5	0	0.0	0	0.0	4	1.7	1	1.0	1	16.7	6	9.7	13	86.7	120	3.7
Total	274	100.0	57	100.0	10	100.0	233	100.0	103	100.0	6	100.0	62	100.0	15	100.0	3235	100.0

*Custom lowboy trailer with tank hauling sprayer.

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	342	19.7	131	26.3	111	33.5	131	39.0	15	39.5	27	28.4	22	28.2	96	80.7	875	27.0
General freight	896	51.5	42	8.4	0	0.0	0	0.0	1	2.6	0	0.0	1	1.3	0	0.0	940	29.1
Household goods	12	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	12	0.4
Building materials	9	0.5	33	6.6	0	0.0	0	0.0	0	0.0	0	0.0	1	1.3	0	0.0	43	1.3
Metal (coils, sheets)	10	0.6	94	18.8	0	0.0	1	0.3	0	0.0	1	1.1	0	0.0	0	0.0	106	3.3
Heavy machinery	5	0.3	52	10.4	1**	0.3	0	0.0	0	0.0	0	0.0	1	1.3	0	0.0	59	1.8
Large objects	5	0.3	38	7.6	0	0.0	0	0.0	0	0.0	0	0.0	2	2.6	0	0.0	45	1.4
Motor vehicles	2	0.1	3	0.6	0	0.0	0	0.0	0	0.0	0	0.0	6	7.7	0	0.0	11	0.3
Piggyback/towaway	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	10	8.4	10	0.3
Gases in bulk	0	0.0	0	0.0	9	2.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	9	0.3
Solids in bulk	67	3.9	18	3.6	39	11.8	194	57.7	0	0.0	1	1.1	21	26.9	0	0.0	340	10.5
Liquids in bulk	0	0.0	0	0.0	167	50.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	167	5.2
Explosives	4	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1
Logs/poles/lumber	4	0.2	51	10.2	0	0.0	0	0.0	0	0.0	64	67.4	2	2.6	0	0.0	121	3.7
Refrigerated foods	262	15.1	0	0.0	0	0.0	0	0.0	1	2.6	0	0.0	0	0.0	0	0.0	263	8.1
Mobile home	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	9.0	0	0.0	7	0.2
Farm products	19	1.1	17	3.4	0	0.0	5	1.5	0	0.0	0	0.0	4	5.1	0	0.0	45	1.4
Live animals	0	0.0	2	0.4	0	0.0	0	0.0	21	55.3	0	0.0	2	2.6	0	0.0	25	0.8
Other	2	0.1	4	0.8	0	0.0	0	0.0	0	0.0	0	0.0	1	1.3	0	0.0	7	0.2
Cargo, unknown type	21	1.2	4	0.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	25	0.8
Saddlemount tractor	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.3	0	0.0	1	0.0
Unknown	79	4.5	10	2.0	4	1.2	5	1.5	0	0.0	2	2.1	7	9.0	13	10.9	120	3.7
Total	1739	100.0	499	100.0	331	100.0	336	100.0	38	100.0	95	100.0	78	100.0	119	100.0	3235	100.0

* The Other category includes ten auto carriers and six refuse trucks.

** Custom lowboy trailer with tank hauling sprayer.

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	1	1.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Class 6: 19,501-26,000	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.1
Class 7: 26,001-33,000	6	5.8	79	2.7	61	37.7	1	50.0	0	0.0	147	4.5
Class 8: 33,001+	96	92.3	2861	96.6	100	61.7	1	50.0	5	100.0	3063	94.7
Unknown	1	1.0	20	0.7	1	0.6	0	0.0	0	0.0	22	0.7
Total	104	100.0	2962	100.0	162	100.0	2	100.0	5	100.0	3235	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	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.8	1	0.0
Class 6: 19,501-26,000	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
Class 7: 26,001-33,000	110	6.3	13	2.6	5	1.5	7	2.1	2	5.3	0	0.0	4	5.1	6	5.0	147	4.5
Class 8: 33,001+	1617	93.0	484	97.0	326	98.5	328	97.6	36	94.7	95	100.0	74	94.9	103	86.6	3063	94.7
Unknown	10	0.6	2	0.4	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	9	7.6	22	0.7
Total	1739	100.0	499	100.0	331	100.0	336	100.0	38	100.0	95	100.0	78	100.0	119	100.0	3235	100.0

* The Other category includes ten auto carriers and six 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	12	11.5
3	91	87.5
Unknown	1	1.0
Total	104	100.0

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

Power unit axles	First trailer axles	N	%
2	1	40	1.4
2	2	64	2.2
3	1	10	0.3
3	2	2668	90.3
3	3	84	2.8
3	4	14	0.5
3	5	4	0.1
3	6	6	0.2
3	7	1	0.0
3	8	1	0.0
4	2	5	0.2
4	3	7	0.2
4	4	9	0.3
4	5	1	0.0
Unknown		39	1.3
Total		2953	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	83	51.2
2	2	3	1	0.6
3	1	1	1	0.6
3	1	2	30	18.5
3	2	2	20	12.3
3	2	3	3	1.9
3	2	4	3	1.9
3	3	2	3	1.9
3	3	4	2	1.2
3	3	5	2	1.2
3	4	4	2	1.2
4	2	1	1	0.6
4	2	2	2	1.2
4	2	3	1	0.6
4	3	3	1	0.6
4	3	4	1	0.6
Unknown			6	3.7
Total			162	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	11	10.6	356	12.0	13	8.0	0	0.0	1	20.0	381	11.8
Interstate for-hire	61	58.7	2089	70.5	121	74.7	2	100.0	3	60.0	2276	70.4
Intrastate private	14	13.5	160	5.4	7	4.3	0	0.0	1	20.0	182	5.6
Intrastate for-hire	6	5.8	222	7.5	15	9.3	0	0.0	0	0.0	243	7.5
Personal use only	1	1.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Government owned	1	1.0	9	0.3	1	0.6	0	0.0	0	0.0	11	0.3
Daily rental	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Unknown	10	9.6	125	4.2	5	3.1	0	0.0	0	0.0	140	4.3
Total	104	100.0	2962	100.0	162	100.0	2	100.0	5	100.0	3235	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	154	8.9	77	15.4	62	18.7	37	11.0	7	18.4	9	9.5	23	29.5	12	10.1	381	11.8
Interstate for-hire	1438	82.7	332	66.5	202	61.0	153	45.5	24	63.2	31	32.6	32	41.0	64	53.8	2276	70.4
Intrastate private	23	1.3	37	7.4	25	7.6	47	14.0	4	10.5	20	21.1	12	15.4	14	11.8	182	5.6
Intrastate for-hire	53	3.0	33	6.6	38	11.5	78	23.2	2	5.3	27	28.4	5	6.4	7	5.9	243	7.5
Personal use only	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.8	1	0.0
Government owned	8	0.5	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0	1	1.3	1	0.8	11	0.3
Daily rental	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
Unknown	62	3.6	20	4.0	4	1.2	20	6.0	1	2.6	8	8.4	5	6.4	20	16.8	140	4.3
Total	1739	100.0	499	100.0	331	100.0	336	100.0	38	100.0	95	100.0	78	100.0	119	100.0	3235	100.0

* The Other category includes ten auto carriers and six 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	154	8.9	100	20.0	108	32.6	177	52.7	6	15.8	42	44.2	31	39.7	54	45.4	672	20.8
51-100 miles	141	8.1	70	14.0	69	20.8	75	22.3	8	21.1	35	36.8	19	24.4	15	12.6	432	13.4
101-150	90	5.2	39	7.8	29	8.8	20	6.0	7	18.4	2	2.1	2	2.6	4	3.4	193	6.0
151-200	101	5.8	31	6.2	23	6.9	12	3.6	3	7.9	1	1.1	6	7.7	1	0.8	178	5.5
201-500	425	24.4	96	19.2	53	16.0	23	6.8	3	7.9	4	4.2	6	7.7	8	6.7	618	19.1
Over 500	502	28.9	91	18.2	14	4.2	4	1.2	5	13.2	0	0.0	6	7.7	5	4.2	627	19.4
Unknown over-the-road distance	97	5.6	17	3.4	13	3.9	4	1.2	2	5.3	0	0.0	1	1.3	5	4.2	139	4.3
Unknown	229	13.2	55	11.0	22	6.6	21	6.3	4	10.5	11	11.6	7	9.0	27	22.7	376	11.6
Total	1739	100.0	499	100.0	331	100.0	336	100.0	38	100.0	95	100.0	78	100.0	119	100.0	3235	100.0

* The Other category includes ten auto carriers and six 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	816	46.9	144	28.9	75	22.7	26	7.7	6	15.8	2	2.1	14	17.9	29	24.4	1112	34.4
US highway	392	22.5	141	28.3	93	28.1	109	32.4	18	47.4	25	26.3	16	20.5	20	16.8	814	25.2
State highway	376	21.6	159	31.9	104	31.4	117	34.8	9	23.7	54	56.8	32	41.0	38	31.9	889	27.5
County road	61	3.5	26	5.2	27	8.2	38	11.3	4	10.5	9	9.5	13	16.7	11	9.2	189	5.8
Township	13	0.7	5	1.0	5	1.5	7	2.1	0	0.0	1	1.1	0	0.0	1	0.8	32	1.0
Municipality	63	3.6	17	3.4	7	2.1	24	7.1	1	2.6	4	4.2	2	2.6	16	13.4	134	4.1
Frontage road	5	0.3	1	0.2	2	0.6	1	0.3	0	0.0	0	0.0	0	0.0	1	0.8	10	0.3
Other	13	0.7	6	1.2	18	5.4	13	3.9	0	0.0	0	0.0	1	1.3	3	2.5	54	1.7
Unknown	0	0.0	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Total	1739	100.0	499	100.0	331	100.0	336	100.0	38	100.0	95	100.0	78	100.0	119	100.0	3235	100.0

* The Other category includes ten auto carriers and six 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	641	36.9	145	29.1	98	29.6	89	26.5	4	10.5	17	17.9	16	20.5	48	40.3	1058	32.7
Rural	1097	63.1	354	70.9	233	70.4	247	73.5	34	89.5	78	82.1	62	79.5	70	58.8	2175	67.2
Unknown	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.8	2	0.1
Total	1739	100.0	499	100.0	331	100.0	336	100.0	38	100.0	95	100.0	78	100.0	119	100.0	3235	100.0

* The Other category includes ten auto carriers and six 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	903	51.9	344	68.9	184	55.6	259	77.1	20	52.6	67	70.5	51	65.4	62	52.1	1890	58.4
Dark	541	31.1	111	22.2	113	34.1	45	13.4	15	39.5	20	21.1	20	25.6	40	33.6	905	28.0
Dark but lighted	222	12.8	31	6.2	26	7.9	20	6.0	1	2.6	3	3.2	2	2.6	13	10.9	318	9.8
Dawn	53	3.0	9	1.8	6	1.8	9	2.7	1	2.6	4	4.2	4	5.1	1	0.8	87	2.7
Dusk	20	1.2	4	0.8	2	0.6	3	0.9	1	2.6	1	1.1	1	1.3	3	2.5	35	1.1
Total	1739	100.0	499	100.0	331	100.0	336	100.0	38	100.0	95	100.0	78	100.0	119	100.0	3235	100.0

* The Other category includes ten auto carriers and six 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	389	22.4	114	22.8	104	31.4	58	17.3	6	15.8	8	8.4	17	21.8	34	28.6	730	22.6
Rear-end	452	26.0	95	19.0	52	15.7	48	14.3	5	13.2	24	25.3	12	15.4	23	19.3	711	22.0
Head-on	228	13.1	74	14.8	51	15.4	60	17.9	9	23.7	17	17.9	9	11.5	22	18.5	470	14.5
Front-to-side: same direction	62	3.6	12	2.4	10	3.0	6	1.8	2	5.3	4	4.2	3	3.8	3	2.5	102	3.2
Front-to-side: opposite direction	160	9.2	49	9.8	23	6.9	40	11.9	4	10.5	8	8.4	7	9.0	7	5.9	298	9.2
Front-to-side: right angle	299	17.2	95	19.0	71	21.5	97	28.9	10	26.3	26	27.4	21	26.9	20	16.8	639	19.8
Front-to-side: unknown direction	5	0.3	4	0.8	2	0.6	2	0.6	1	2.6	0	0.0	0	0.0	2	1.7	16	0.5
Sideswipe: same direction	56	3.2	21	4.2	6	1.8	7	2.1	0	0.0	1	1.1	1	1.3	3	2.5	95	2.9
Sideswipe: opposite direction	60	3.5	24	4.8	7	2.1	17	5.1	1	2.6	6	6.3	6	7.7	2	1.7	123	3.8
Rear-to-side	10	0.6	3	0.6	1	0.3	0	0.0	0	0.0	0	0.0	1	1.3	1	0.8	16	0.5
Other	10	0.6	7	1.4	3	0.9	0	0.0	0	0.0	1	1.1	1	1.3	1	0.8	23	0.7
Unknown	8	0.5	1	0.2	1	0.3	1	0.3	0	0.0	0	0.0	0	0.0	1	0.8	12	0.4
Total	1739	100.0	499	100.0	331	100.0	336	100.0	38	100.0	95	100.0	78	100.0	119	100.0	3235	100.0

* The Other category includes ten auto carriers and six 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	234	49.0	4	3.8	11	3.8	3	1.1	0	0.0	13	0.6	1	4.3	266	8.2
Hit object in road	30	6.3	0	0.0	3	1.0	4	1.4	0	0.0	217	10.6	2	8.7	256	7.9
<i>Same direction, same trafficway</i>																
Rearend, truck striking	57	11.9	14	13.2	21	7.3	23	8.2	0	0.0	103	5.0	0	0.0	218	6.7
Rearend, truck struck	3	0.6	5	4.7	24	8.3	17	6.0	0	0.0	238	11.6	6	26.1	293	9.1
Sideswipe, in other's lane	3	0.6	0	0.0	1	0.3	1	0.4	0	0.0	23	1.1	2	8.7	30	0.9
Sideswipe, in truck's lane	6	1.3	1	0.9	4	1.4	3	1.1	0	0.0	84	4.1	1	4.3	99	3.1
<i>Opposite direction, same trafficway</i>																
Head-on, in other's lane	9	1.9	2	1.9	6	2.1	3	1.1	0	0.0	4	0.2	0	0.0	24	0.7
Head-on, in truck's lane	15	3.1	21	19.8	52	18.0	76	27.0	1	50.0	183	8.9	1	4.3	349	10.8
Sideswipe, in other's lane	8	1.7	8	7.5	9	3.1	4	1.4	0	0.0	22	1.1	1	4.3	52	1.6
Sideswipe, in truck's lane	7	1.5	7	6.6	36	12.5	32	11.3	1	50.0	255	12.4	0	0.0	338	10.4
<i>Change trafficway, one vehicle turning</i>																
Truck turn across path	3	0.6	0	0.0	3	1.0	7	2.5	0	0.0	101	4.9	0	0.0	114	3.5
Other turn across path	7	1.5	6	5.7	23	8.0	19	6.7	0	0.0	129	6.3	0	0.0	184	5.7
<i>Intersecting paths, both going straight</i>																
Truck into side of other	10	2.1	9	8.5	31	10.7	27	9.6	0	0.0	144	7.0	0	0.0	221	6.8
Other into side of truck	2	0.4	4	3.8	11	3.8	14	5.0	0	0.0	97	4.7	0	0.0	128	4.0
<i>Other accident types</i>																
Truck backed into other	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	13	0.6	0	0.0	14	0.4
Other backed into truck	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1	0	0.0	4	0.1
Untripped roll	44	9.2	2	1.9	6	2.1	2	0.7	0	0.0	7	0.3	0	0.0	61	1.9
No impact	5	1.0	1	0.9	1	0.3	1	0.4	0	0.0	5	0.2	0	0.0	13	0.4
Other	33	6.9	22	20.8	45	15.6	43	15.2	0	0.0	406	19.8	9	39.1	558	17.2
Unknown	1	0.2	0	0.0	2	0.7	2	0.7	0	0.0	8	0.4	0	0.0	13	0.4
Total	478	100.0	106	100.0	289	100.0	282	100.0	2	100.0	2055	100.0	23	100.0	3235	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)	226	13.0	79	15.8	83	25.1	44	13.1	2	5.3	13	13.7	8	10.3	23	19.3	478	14.8
Incapacitating (A)	54	3.1	13	2.6	10	3.0	12	3.6	2	5.3	10	10.5	3	3.8	2	1.7	106	3.3
Non-incapacitating (B)	155	8.9	35	7.0	30	9.1	40	11.9	3	7.9	10	10.5	6	7.7	10	8.4	289	8.9
Complaint of pain (C)	157	9.0	38	7.6	32	9.7	29	8.6	1	2.6	8	8.4	8	10.3	9	7.6	282	8.7
Injured, severity unknown	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
No injury (O)	1132	65.1	333	66.7	175	52.9	208	61.9	30	78.9	54	56.8	53	67.9	70	58.8	2055	63.5
Unknown	13	0.7	1	0.2	1	0.3	3	0.9	0	0.0	0	0.0	0	0.0	5	4.2	23	0.7
Total	1739	100.0	499	100.0	331	100.0	336	100.0	38	100.0	95	100.0	78	100.0	119	100.0	3235	100.0

* The Other category includes ten auto carriers and six 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	126	26.4	21	19.8	55	19.0	23	8.2	0	0.0	44	2.1	0	0.0	269	8.3
Fire only	63	13.2	12	11.3	37	12.8	16	5.7	0	0.0	50	2.4	0	0.0	178	5.5
Ejection only	30	6.3	1	0.9	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	32	1.0
Rollover and fire	42	8.8	2	1.9	6	2.1	3	1.1	1	50.0	1	0.0	0	0.0	55	1.7
Rollover and ejection	76	15.9	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	77	2.4
Fire and ejection	12	2.5	1	0.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	13	0.4
Rollover, fire and ejection	8	1.7	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	9	0.3
None	116	24.3	68	64.2	191	66.1	238	84.4	1	50.0	1957	95.2	11	47.8	2582	79.8
Unknown	5	1.0	1	0.9	0	0.0	0	0.0	0	0.0	2	0.1	12	52.2	20	0.6
Total	478	100.0	106	100.0	289	100.0	282	100.0	2	100.0	2055	100.0	23	100.0	3235	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-incapacitating 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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