

# TRUCKS INVOLVED IN FATAL ACCIDENTS FACTBOOK 2002



**Center for National Truck and Bus Statistics**  
University of Michigan Transportation Research Institute  
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# **TRUCKS INVOLVED IN FATAL ACCIDENTS FACTBOOK 2002**

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October 2004

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The research reported herein was conducted under the general research funds provided by the Federal Motor Carrier Safety Administration and the Affiliates Program for the Center for National Truck and Bus Statistics. The opinions, findings, and conclusions expressed in this publication are those of the authors and not necessarily those of the U.S. Department of Transportation, the Federal Motor Carrier Safety Administration, or the sponsors of the Affiliates Program.

1. Report No. <b>UMTRI-2004-34</b>		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle <b>Trucks Involved in Fatal Accidents Factbook 2002</b>				5. Report Date <b>October 2004</b>	
				6. Performing Organization Code	
7. Authors <b>Anne Matteson, Daniel Blower, John Woodrooffe</b>				8. Performing Organization Report No. <b>UMTRI-2004-34</b>	
9. Performing Organization Name and Address <b>Transportation Research Institute 2901 Baxter Road University of Michigan Ann Arbor, Michigan 48109-2150</b>				10. Work Unit No. <b>080638</b>	
				11. Contract or Grant No. <b>DTMC75-02-R-00090</b>	
12. Sponsoring Agency Name and Address				13. Type of Report and Period Covered <b>Special report</b>	
				14. Sponsoring Agency Code	
15. Supplementary Notes <b>Funds provided by: Federal Motor Carrier Safety Administration Washington DC 20590; and, Affiliates Program, Center for National Truck and Bus Statistics</b>					
16. Abstract <p>This document presents aggregate statistics on trucks involved in traffic accidents in 2002. The statistics are derived from the Trucks Involved in Fatal Accidents (TIFA) file, compiled by the University of Michigan Transportation Research Institute. The TIFA database provides coverage of all medium and heavy trucks recorded in the Fatality Analysis Reporting System (FARS) file. TIFA combines vehicle, accident, and occupant records from FARS with information about the physical configuration and operating authority of the truck from the TIFA survey.</p>					
17. Key Words <b>Trucks, medium trucks, heavy trucks, accident statistics, fatal accident data</b>			18. Distribution Statement <b>Unlimited</b>		
19. Security Classification (of this report) <b>Unclassified</b>		20. Security Classification (of this page) <b>Unclassified</b>		21. No. of Pages <b>114</b>	22. Price

Reproduction of completed page authorized

## 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
<b>LENGTH</b>					<b>LENGTH</b>				
	inches	25.4	millimeters	mm	mm	millimeters	0.039	inches	in
in					m	meters	3.28	feet	ft
ft	feet	0.305	meters	m	m	meters	1.09	yards	yd
yd	yards	0.914	meters	m	km	kilometers	0.621	miles	mi
mi	miles	1.61	kilometers	km					
<b>AREA</b>					<b>AREA</b>				
in <sup>2</sup>	square inches	645.2	square millimeters	mm <sup>2</sup>	mm <sup>2</sup>	square millimeters	0.0016	square inches	in <sup>2</sup>
ft <sup>2</sup>	square feet	0.093	square meters	m <sup>2</sup>	m <sup>2</sup>	square meters	10.764	square feet	ft <sup>2</sup>
yd <sup>2</sup>	square yards	0.836	square meters	m <sup>2</sup>	ha	hectares	2.47	acres	ac
ac	acres	0.405	hectares	ha	km <sup>2</sup>	square kilometers	0.386	square miles	mi <sup>2</sup>
mi <sup>2</sup>	square miles	2.59	square kilometers	km <sup>2</sup>					
<b>VOLUME</b>					<b>VOLUME</b>				
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 <sup>3</sup>	cubic feet	0.028	cubic meters	m <sup>3</sup>	m <sup>3</sup>	cubic meters	35.71	cubic feet	ft <sup>3</sup>
yd <sup>3</sup>	cubic yards	0.765	cubic meters	m <sup>3</sup>	m <sup>3</sup>	cubic meters	1.307	cubic yards	yd <sup>3</sup>
NOTE: Volumes greater than 1000 L shall be shown in m <sup>3</sup> .									
<b>MASS</b>					<b>MASS</b>				
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
<b>TEMPERATURE (exact)</b>					<b>TEMPERATURE (exact)</b>				
°F	Fahrenheit temperature	5(F-32)/9 or (F-32)/1.8	Celcius temperature	°C	°C	Celcius temperature	<b>1.8C + 32</b>	Fahrenheit temperature	°F
<b>ILLUMINATION</b>					<b>ILLUMINATION</b>				
fc	foot-candles	10.76	lux	lx	lx	lux	0.0929	foot-candles	fc
fl	foot-Lamberts	3.426	candela/m <sup>2</sup>	cd/m <sup>2</sup>	cd/m <sup>2</sup>	candela/m <sup>2</sup>	0.2919	foot-lamberts	fl
<b>FORCE and PRESSURE or STRESS</b>					<b>FORCE and PRESSURE or STRESS</b>				
lbf	poundforce	4.45	newtons	N	N	newtons	0.225	poundforce	lbf
lbf/in <sup>2</sup>	poundforce per square inch	6.89	kilopascals	kPa	kPa	kilopascals	0.145	poundforce per square inch	lbf/in <sup>2</sup>

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

(Revised September 1993)

## Acknowledgments

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

The TIFA Survey is conducted by the Center for National Truck and Bus Statistics at the University of Michigan Transportation Research Institute with support from the Affiliates Program for the CNTBS. Current members are the American Trucking Associations, Inc. and the Owner-Operator Independent Drivers Association, Inc. The preparation of the data file and factbook were supported by the Federal Motor Carrier Safety Administration. The National Highway Traffic Safety Administration's National Center for Statistics and Analysis and FARS analysts in the states provided assistance in acquiring police reports from the respective states. We are sincerely grateful for their efforts.



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## ***Introduction***

This report, *Trucks Involved in Fatal Accidents Factbook, 2002*, 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 2002 TIFA file is a census file, meaning there is one record for each of the 4,950 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 is altered or corrected. The TIFA variables supplement the FARS data with extensive detail on the truck, including cab style; weights, lengths, and axle counts for each unit in the truck configuration; cargo body, cargo type, and cargo weight 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, 2002*.

## ***Report overview***

This report consists of seven sections. The "Trends" section provides data on fatalities and fatal accident involvements from 1998 through 2002. 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 the weights, lengths, and axle counts of the trucks. The "Driver" section includes information about truck driver injury, licensing, 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. The "Tractors" section provides similar data on tractor combinations involved in fatal accidents. Finally, the "Longer combination vehicles" section summarizes data on longer combination trucks involved in a fatal accident.

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, 1998-2002***

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 5,000 trucks are involved in a fatal traffic accident each year.
- Tractors pulling one semitrailer are the most common truck configuration, accounting for about 60% of all trucks involved in a fatal accident.
- Texas, California, and Florida had the greatest number of truck involvements over the period 1998 to 2002.
- The number of persons killed in accidents involving a truck decreased to 5,314 in 2002, compared with an average of 5,584 from 1998-2001.
- The number of truck drivers killed in traffic accidents decreased from 713 in 2000 to 664 in 2002.
- An average of 366 pedestrians and 69 bicyclists are killed each year in traffic accidents involving trucks.



## Annual fatal involvements

**Table 1-1**  
**Fatal Truck Involvements by Year and Truck Configuration**  
**TIFA 1998-2002**

Accident year	Strt truck No.	Strt/1 trailer No.	Bobtail No.	Trac/1 semi No.	Trac/2 trlrs No.	Other combs No.	Unk. No.	Total No.
1998	1420	210	135	3094	164	47	128	5198
1999	1483	224	130	3159	151	36	50	5233
2000	1519	222	123	3164	162	38	47	5275
2002	1284	183	95	2877	154	36	321	4950
Total	5706	839	483	12294	631	157	546	20656

Note: Data for this variable are not currently available for 2001.



**Table 1-2**  
**Fatal Truck Involvements by Year and All Truck Configurations**  
**TIFA 1998-2002**

Configuration	1998	1999	2000	2002	Total
	No.	No.	No.	No.	No.
Straight only	1420	1483	1519	1284	5706
Straight + full trailer	61	54	47	44	206
Straight + other	109	126	127	97	459
Straight + other, gooseneck hitch	40	44	48	42	174
Wrecker + tow	14	10	11	11	46
Straight, unknown if trailer	0	0	2	2	4
Straight + 2 full trailers	0	0	0	1	1
Straight + other (gooseneck) + other	0	0	1	0	1
Bobtail tractor	127	110	110	87	434
Tractor carrying cargo	8	20	13	8	49
Tractor and semitrailer	3094	3159	3164	2877	12294
Tractor + other	18	18	15	12	63
Tractor + semi + A dolly	1	0	2	0	3
Tractor + full trailer	0	1	1	0	2
Double with A dolly	86	87	86	75	334
Double, B train	4	1	7	6	18
Double with unknown dolly type	1	0	0	1	2
Tractor + semi + full	73	62	66	72	273
Tractor + semi + other	0	1	1	0	2
Tractor + semi + unknown	0	0	2	0	2
Triple with A dollies	1	2	2	1	6
Tractor + jeep + semi + jeep	1	0	2	1	4
Tractor + semi + jeep	0	1	0	1	2
Tractor + jeep + semi	0	0	0	3	3
Tractor + jeep + full + jeep	0	1	0	0	1
Tractor + 1 saddle mount tractor	0	0	1	2	3
Tractor + 2 saddle mount tractors	1	0	0	2	3
Tractor + 3 saddle mount tractors	4	1	0	0	5
Tractor + saddle mount + cutaway chassis	2	0	0	0	2
Straight truck towing straight truck	4	0	0	0	4
Wrecker and doubles	1	0	0	0	1
Wrecker + straight + full	0	1	0	0	1
Straight + 2 saddle mount straights	0	1	0	0	1
Wrecker towing other trailer	0	0	1	0	1
Unknown	128	50	47	321	546
<b>Total</b>	<b>5198</b>	<b>5233</b>	<b>5275</b>	<b>4950</b>	<b>20656</b>

Note: Data for this variable are not currently available for 2001.

Table 1-3: Fatal Truck Involvements by Year and State, TIFA 1998-2002

State	1998	1999	2000	2001	2002	Total
	No.	No.	No.	No.	No.	No.
Alabama	153	146	154	153	128	734
Alaska	2	7	4	9	5	27
Arizona	99	117	107	91	96	510
Arkansas	107	98	119	109	85	518
California	374	347	396	381	374	1872
Colorado	54	65	75	95	60	349
Connecticut	32	24	39	27	17	139
Delaware	23	10	21	12	19	85
Dist of Columbia	2	2	4	1	1	10
Florida	330	344	321	358	390	1743
Georgia	202	233	219	244	214	1112
Hawaii	3	3	2	9	4	21
Idaho	24	26	27	32	32	141
Illinois	185	204	171	188	172	920
Indiana	183	195	170	143	131	822
Iowa	84	102	87	81	76	430
Kansas	82	80	85	83	80	410
Kentucky	103	104	99	103	121	530
Louisiana	149	124	118	140	107	638
Maine	22	27	27	28	26	130
Maryland	73	65	67	79	66	350
Massachusetts	39	37	49	31	25	181
Michigan	155	144	152	130	136	717
Minnesota	86	90	78	62	86	402
Mississippi	114	118	122	93	78	525
Missouri	165	169	179	140	167	820
Montana	19	15	27	30	30	121
Nebraska	43	62	55	63	61	284
Nevada	36	44	37	44	39	200
New Hampshire	12	11	11	14	18	66
New Jersey	67	61	94	77	55	354
New Mexico	51	52	44	56	60	263
New York	135	156	162	146	143	742
North Carolina	244	204	178	197	177	1000
North Dakota	8	20	11	12	18	69
Ohio	202	214	199	170	194	979
Oklahoma	115	97	116	92	126	546
Oregon	67	50	65	55	47	284
Pennsylvania	187	217	188	178	192	962
Rhode Island	2	9	2	6	5	24
South Carolina	133	144	96	120	101	594
South Dakota	13	19	22	24	16	94
Tennessee	135	173	172	137	136	753
Texas	462	434	499	511	445	2351
Utah	53	39	44	35	40	211
Vermont	12	8	8	6	11	45
Virginia	118	108	107	130	90	553
Washington	72	60	69	58	57	316
West Virginia	41	51	51	52	59	254
Wisconsin	94	77	106	102	105	484
Wyoming	32	27	20	26	29	134
Total	5198	5233	5275	5163	4950	25819

Table 1-4: Fatal Truck Involvements by Year and State – STRAIGHT TRUCKS ONLY, TIFA 1998-2002

State	1998	1999	2000	2002	Total
	No.	No.	No.	No.	No.
Alabama	45	29	41	31	146
Alaska	2	4	4	2	12
Arizona	27	27	35	30	119
Arkansas	17	27	35	15	94
California	136	118	154	123	531
Colorado	17	20	37	27	101
Connecticut	17	10	18	8	53
Delaware	10	3	9	7	29
Dist of Columbia	1	2	3	1	7
Florida	138	125	133	116	512
Georgia	69	87	63	68	287
Hawaii	3	3	1	2	9
Idaho	15	8	6	13	42
Illinois *	44	54	50	41	189
Indiana	43	52	46	41	182
Iowa *	26	16	24	17	83
Kansas	13	21	27	20	81
Kentucky	42	45	34	48	169
Louisiana	43	38	29	31	141
Maine	10	11	17	13	51
Maryland	30	35	27	30	122
Massachusetts	12	15	26	13	66
Michigan	57	55	53	59	224
Minnesota	28	26	26	32	112
Mississippi *	0	11	21	7	39
Missouri	44	57	50	63	214
Montana	7	5	8	15	35
Nebraska	10	15	15	8	48
Nevada *	9	11	14	6	40
New Hampshire	1	5	4	7	17
New Jersey *	30	24	50	15	119
New Mexico	14	9	7	13	43
New York *	74	76	89	49	288
North Carolina	77	78	52	61	268
North Dakota	2	5	0	4	11
Ohio	62	76	70	44	252
Oklahoma *	30	30	32	21	113
Oregon	25	7	21	14	67
Pennsylvania *	72	81	49	48	250
Rhode Island	2	8	1	2	13
South Carolina	30	30	24	31	115
South Dakota	4	11	8	3	26
Tennessee	38	52	41	43	174
Texas *	128	172	143	87	530
Utah	18	8	12	4	42
Vermont	3	5	3	4	15
Virginia	41	28	43	33	145
Washington	32	27	27	31	117
West Virginia	14	22	17	21	74
Wisconsin	29	32	52	48	161
Wyoming	8	3	5	11	27
Total	1649	1719	1756	1481	6605

Note: Data for this variable are not currently available for 2001.

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

\* In these states, truck configuration was unknown in at least 10% of the 2002 cases. The states did not supply all needed police reports.

Table 1-5: Fatal Truck Involvements by Year and State – TRACTOR-SEMITRAILERS ONLY, TIFA 1998-2002

State	1998	1999	2000	2002	Total
	No.	No.	No.	No.	No.
Alabama	100	109	109	88	406
Alaska	0	3	0	2	5
Arizona	63	83	68	61	275
Arkansas	81	57	77	66	281
California	168	170	184	182	704
Colorado	31	40	36	31	138
Connecticut	15	13	19	9	56
Delaware	13	7	11	11	42
Dist of Columbia	1	0	0	0	1
Florida	177	197	178	224	776
Georgia	120	138	149	133	540
Hawaii	0	0	1	2	3
Idaho	5	15	16	16	52
Illinois *	133	145	110	81	469
Indiana	129	133	114	82	458
Iowa *	58	76	60	43	237
Kansas	67	57	55	57	236
Kentucky	54	55	64	69	242
Louisiana	100	81	81	69	331
Maine	11	15	10	13	49
Maryland	38	26	39	34	137
Massachusetts	25	21	21	10	77
Michigan	87	67	84	67	305
Minnesota	56	63	51	47	217
Mississippi *	0	67	89	40	196
Missouri	109	99	116	95	419
Montana	10	7	17	11	45
Nebraska	31	45	37	46	159
Nevada *	22	27	16	17	82
New Hampshire	11	6	7	11	35
New Jersey *	36	33	42	12	123
New Mexico	35	42	34	44	155
New York *	57	78	71	63	269
North Carolina	156	115	122	110	503
North Dakota	6	15	9	12	42
Ohio	125	133	120	128	506
Oklahoma *	80	64	80	86	310
Oregon	36	34	32	26	128
Pennsylvania *	104	127	96	105	432
Rhode Island	0	1	1	3	5
South Carolina	94	106	64	66	330
South Dakota	9	7	12	11	39
Tennessee	89	114	116	87	406
Texas *	314	251	329	291	1185
Utah	23	26	24	30	103
Vermont	7	3	5	7	22
Virginia	74	73	59	56	262
Washington	25	20	31	19	95
West Virginia	27	28	33	33	121
Wisconsin	63	44	52	55	214
Wyoming	19	23	13	16	71
Total	3094	3159	3164	2877	12294

Note: Data for this variable are not currently available for 2001.

\* In these states, truck configuration was unknown in at least 10% of the 2002 cases. The states did not supply all needed police reports.

Table 1-6: Fatal Truck Involvements by Year and State – DOUBLES ONLY, TIFA 1998-2002

State	1998 No.	1999 No.	2000 No.	2002 No.	Total No.
Alabama	0	0	1	3	4
Alaska	0	0	0	0	0
Arizona	6	3	3	3	15
Arkansas	4	5	4	3	16
California	56	40	45	59	200
Colorado	4	1	0	1	6
Connecticut	0	0	1	0	1
Delaware	0	0	0	0	0
Dist of Columbia	0	0	0	0	0
Florida	2	3	4	2	11
Georgia	3	1	2	3	9
Hawaii	0	0	0	0	0
Idaho	4	2	5	2	13
Illinois *	5	3	4	1	13
Indiana	5	7	5	4	21
Iowa *	0	3	0	1	4
Kansas	2	0	3	0	5
Kentucky	1	1	0	1	3
Louisiana	1	1	1	4	7
Maine	1	0	0	0	1
Maryland	0	1	1	0	2
Massachusetts	0	1	0	0	1
Michigan	5	15	11	7	38
Minnesota	0	1	0	0	1
Mississippi *	0	2	2	0	4
Missouri	6	9	7	6	28
Montana	2	2	0	2	6
Nebraska	1	1	2	3	7
Nevada *	2	5	2	2	11
New Hampshire	0	0	0	0	0
New Jersey *	1	0	0	1	2
New Mexico	1	1	3	2	7
New York *	3	0	0	3	6
North Carolina	0	4	3	1	8
North Dakota	0	0	2	0	2
Ohio	4	4	4	4	16
Oklahoma *	1	0	1	1	3
Oregon	3	7	8	5	23
Pennsylvania *	4	3	3	3	13
Rhode Island	0	0	0	0	0
South Carolina	1	5	3	0	9
South Dakota	0	1	1	1	3
Tennessee	3	4	4	4	15
Texas *	2	1	7	7	17
Utah	12	3	5	4	24
Vermont	0	0	0	0	0
Virginia	3	2	2	1	8
Washington	11	6	10	5	32
West Virginia	0	1	1	2	4
Wisconsin	0	1	0	1	2
Wyoming	5	1	2	2	10
Total	164	151	162	154	631

Note: Data for this variable are not currently available for 2001.

\* In these states, truck configuration was unknown in at least 10% of the 2002 cases. The states did not supply all needed police reports.

## Annual fatalities

**Table 1-7**  
**Fatalities in Truck Involvements by Year and Person Type**  
**TIFA 1998-2002**

Vehicle/Person type	1998		1999		2000		2001		2002	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<i>Truck</i>										
Driver	658	11.7	698	12.3	713	12.8	676	12.4	664	12.5
Passenger	119	2.1	136	2.4	111	2.0	145	2.7	124	2.3
Unk occ type	2	0.0	2	0.0	4	0.1	0	0.0	1	0.0
Truck total	779	13.8	836	14.7	828	14.9	821	15.1	789	14.8
<i>Other vehicle</i>										
Drivers	3119	55.4	3169	55.6	3131	56.2	3081	56.6	3026	56.9
Passengers	1255	22.3	1216	21.3	1157	20.8	1053	19.3	1087	20.5
Unk occ type	10	0.2	6	0.1	9	0.2	8	0.1	4	0.1
Other vehicle total	4384	77.9	4391	77.1	4297	77.2	4142	76.1	4117	77.5
<i>Non-motorists</i>										
In parked vehicle	14	0.2	12	0.2	11	0.2	14	0.3	12	0.2
Pedestrian	386	6.9	371	6.5	358	6.4	392	7.2	325	6.1
Bicyclist	63	1.1	71	1.2	70	1.3	73	1.3	69	1.3
Other/unknown	3	0.1	15	0.3	3	0.1	0	0.0	2	0.0
Non-motorist total	466	8.3	469	8.2	442	7.9	479	8.8	408	7.7
Total	5629	100.0	5696	100.0	5567	100.0	5442	100.0	5314	100.0



## ***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 476, while April had the fewest with 341.
- About two-thirds of fatal accident involvements occur in rural areas.
- Almost two-thirds of fatal accident involvements occur in daylight.
- 81.2% of fatal accident involvements occur on dry roads.
- 84.6% of fatal accident involvements occur in “normal” (i.e., no precipitation) weather conditions.
- 29.7% of fatal involvements occur on state highways, 24.5% on U.S. highways, and 25.8% on Interstate highways.
- In 9.2% of fatal involvements, the other vehicle crossed the center line of the road and struck the truck head on.





### Geographic distributions

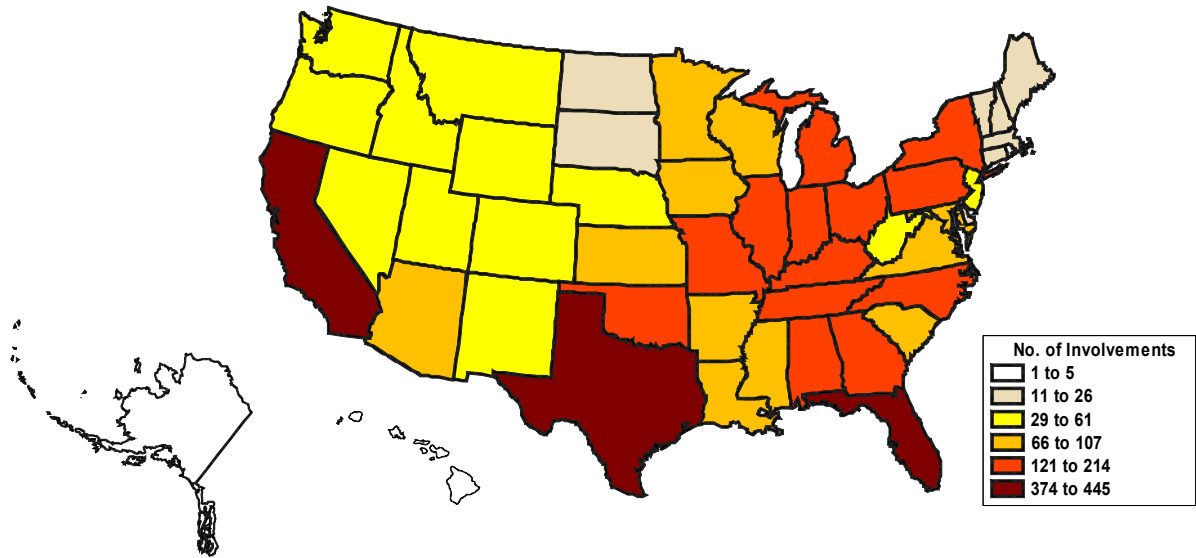


Figure 2-1: Fatal Truck Involvements by State, TIFA 2002

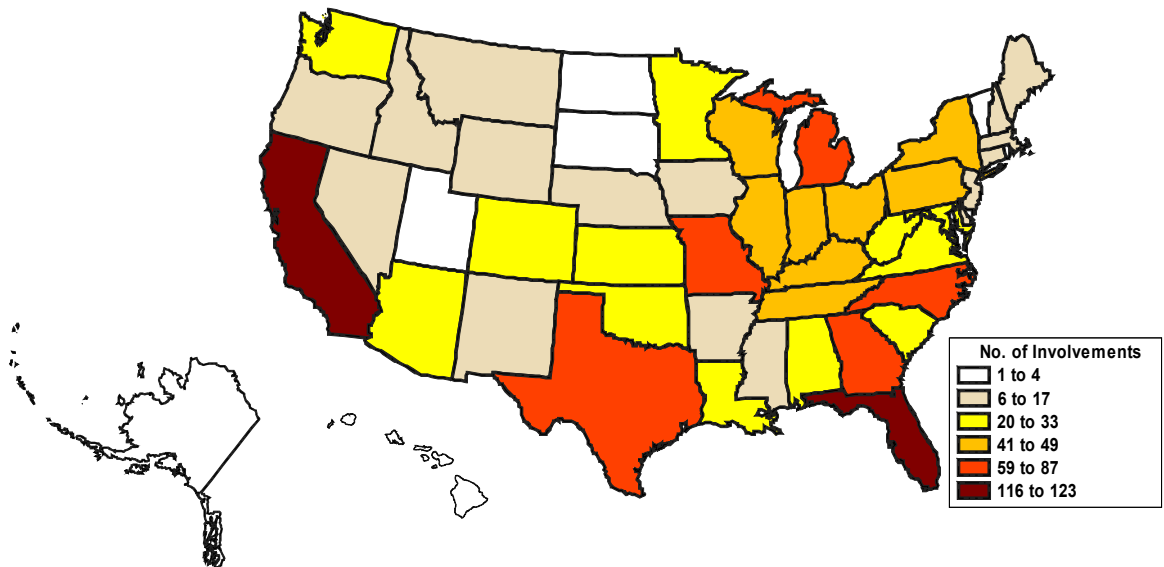


Figure 2-2: Fatal Truck Involvements by State – STRAIGHT TRUCKS ONLY, TIFA 2002

Note: The truck configuration variable was unrecorded in 6.5% of the 2002 cases, compared with approximately 1.0% in previous years.

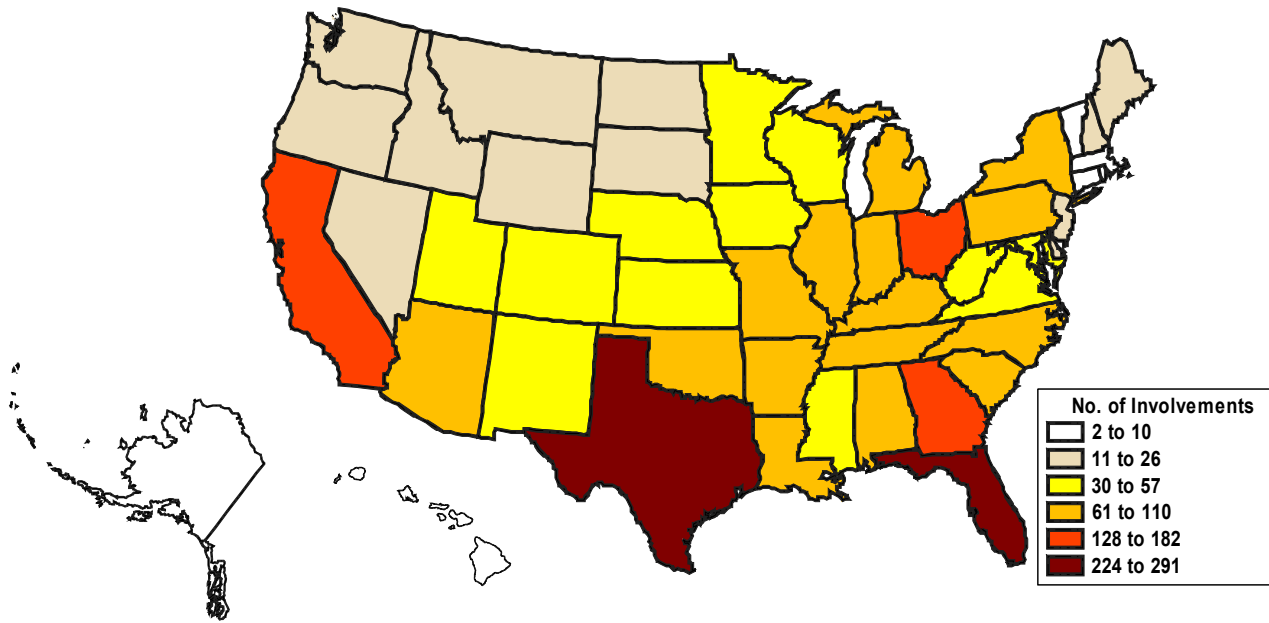


Figure 2-3: Fatal Truck Involvements by State – TRACTOR-SEMITRAILERS ONLY, TIFA 2002

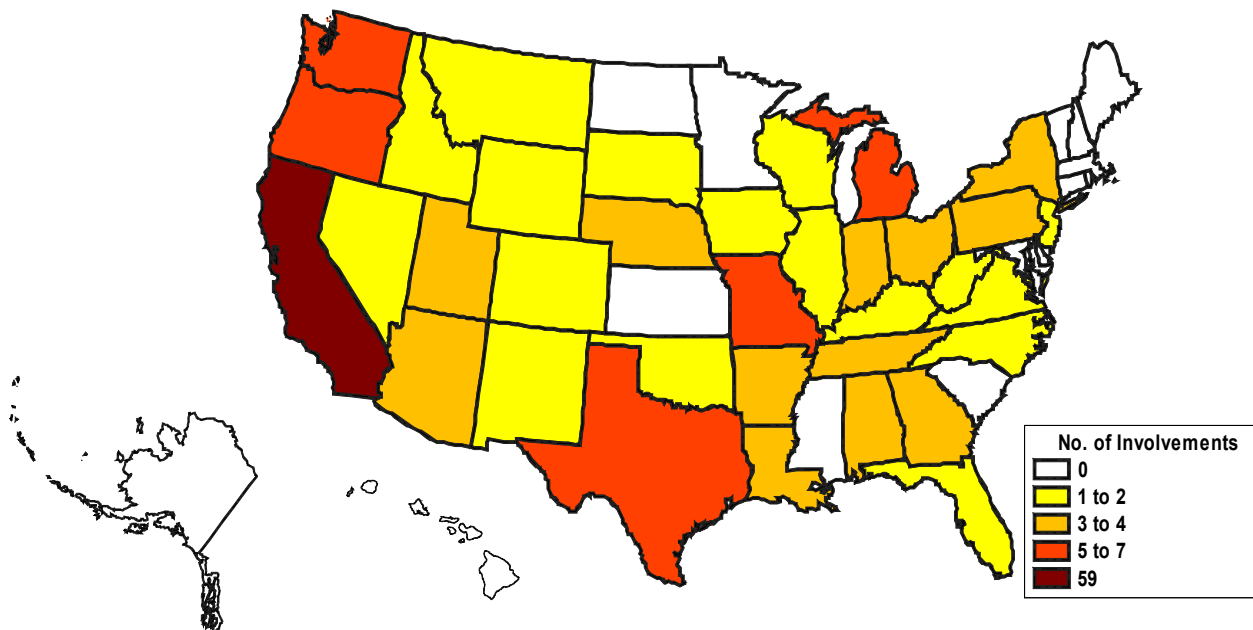


Figure 2-4: Fatal Truck Involvements by State – DOUBLES ONLY, TIFA 2002

Note: The truck configuration variable was unrecorded in 6.5% of the 2002 cases, compared with approximately 1.0% in previous years.

Table 2-1: Fatal Truck Involvements by State and Truck Configuration, TIFA 2002

State	Strt Truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs**		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Alabama	28	2.2	3	1.6	5	5.3	88	3.1	3	1.9	1	2.8	0	0.0	128	2.6
Alaska	2	0.2	0	0.0	0	0.0	2	0.1	0	0.0	1	2.8	0	0.0	5	0.1
Arizona	25	1.9	5	2.7	1	1.1	61	2.1	3	1.9	0	0.0	1	0.3	96	1.9
Arkansas	11	0.9	4	2.2	0	0.0	66	2.3	3	1.9	0	0.0	1	0.3	85	1.7
California	103	8.0	19	10.4	6	6.3	182	6.3	59	38.3	4	11.1	1	0.3	374	7.6
Colorado	19	1.5	7	3.8	1	1.1	31	1.1	1	0.6	1	2.8	0	0.0	60	1.2
Connecticut	7	0.5	1	0.5	0	0.0	9	0.3	0	0.0	0	0.0	0	0.0	17	0.3
Delaware	7	0.5	0	0.0	0	0.0	11	0.4	0	0.0	1	2.8	0	0.0	19	0.4
Dist of Columbia	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Florida	107	8.3	8	4.4	11	11.6	224	7.8	2	1.3	2	5.6	36	11.2	390	7.9
Georgia	62	4.8	6	3.3	8	8.4	133	4.6	3	1.9	2	5.6	0	0.0	214	4.3
Hawaii	2	0.2	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Idaho	10	0.8	3	1.6	1	1.1	16	0.6	2	1.3	0	0.0	0	0.0	32	0.6
Illinois *	37	2.9	4	2.2	4	4.2	81	2.8	1	0.6	0	0.0	45	14.0	172	3.5
Indiana	39	3.0	2	1.1	1	1.1	82	2.9	4	2.6	1	2.8	2	0.6	131	2.6
Iowa *	16	1.2	1	0.5	2	2.1	43	1.5	1	0.6	0	0.0	13	4.0	76	1.5
Kansas	16	1.2	4	2.2	1	1.1	57	2.0	0	0.0	0	0.0	2	0.6	80	1.6
Kentucky	45	3.5	3	1.6	3	3.2	69	2.4	1	0.6	0	0.0	0	0.0	121	2.4
Louisiana	28	2.2	3	1.6	3	3.2	69	2.4	4	2.6	0	0.0	0	0.0	107	2.2
Maine	12	0.9	1	0.5	0	0.0	13	0.5	0	0.0	0	0.0	0	0.0	26	0.5
Maryland	27	2.1	3	1.6	2	2.1	34	1.2	0	0.0	0	0.0	0	0.0	66	1.3
Massachusetts	13	1.0	0	0.0	0	0.0	10	0.3	0	0.0	1	2.8	1	0.3	25	0.5
Michigan	47	3.7	12	6.6	2	2.1	67	2.3	7	4.5	1	2.8	0	0.0	136	2.7
Minnesota	30	2.3	2	1.1	1	1.1	47	1.6	0	0.0	1	2.8	5	1.6	86	1.7
Mississippi *	7	0.5	0	0.0	0	0.0	40	1.4	0	0.0	0	0.0	31	9.7	78	1.6
Missouri	54	4.2	8	4.4	3	3.2	95	3.3	6	3.9	1	2.8	0	0.0	167	3.4
Montana	12	0.9	2	1.1	1	1.1	11	0.4	2	1.3	1	2.8	1	0.3	30	0.6
Nebraska	7	0.5	1	0.5	0	0.0	46	1.6	3	1.9	0	0.0	4	1.2	61	1.2
Nevada *	4	0.3	1	0.5	0	0.0	17	0.6	2	1.3	3	8.3	12	3.7	39	0.8
New Hampshire	7	0.5	0	0.0	0	0.0	11	0.4	0	0.0	0	0.0	0	0.0	18	0.4
New Jersey *	15	1.2	0	0.0	0	0.0	12	0.4	1	0.6	0	0.0	27	8.4	55	1.1
New Mexico	11	0.9	2	1.1	0	0.0	44	1.5	2	1.3	0	0.0	1	0.3	60	1.2
New York *	45	3.5	3	1.6	2	2.1	63	2.2	3	1.9	2	5.6	25	7.8	143	2.9
North Carolina	54	4.2	6	3.3	4	4.2	110	3.8	1	0.6	2	5.6	0	0.0	177	3.6
North Dakota	4	0.3	0	0.0	2	2.1	12	0.4	0	0.0	0	0.0	0	0.0	18	0.4
Ohio	39	3.0	4	2.2	4	4.2	128	4.4	4	2.6	2	5.6	13	4.0	194	3.9
Oklahoma *	14	1.1	7	3.8	2	2.1	86	3.0	1	0.6	0	0.0	16	5.0	126	2.5
Oregon	11	0.9	3	1.6	2	2.1	26	0.9	5	3.2	0	0.0	0	0.0	47	0.9
Pennsylvania *	43	3.3	4	2.2	2	2.1	105	3.6	3	1.9	1	2.8	34	10.6	192	3.9
Rhode Island	2	0.2	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	5	0.1
South Carolina	23	1.8	7	3.8	4	4.2	66	2.3	0	0.0	1	2.8	0	0.0	101	2.0
South Dakota	2	0.2	1	0.5	1	1.1	11	0.4	1	0.6	0	0.0	0	0.0	16	0.3
Tennessee	38	3.0	5	2.7	2	2.1	87	3.0	4	2.6	0	0.0	0	0.0	136	2.7
Texas *	70	5.5	16	8.7	8	8.4	291	10.1	7	4.5	4	11.1	49	15.3	445	9.0
Utah	4	0.3	0	0.0	1	1.1	30	1.0	4	2.6	0	0.0	1	0.3	40	0.8
Vermont	3	0.2	1	0.5	0	0.0	7	0.2	0	0.0	0	0.0	0	0.0	11	0.2
Virginia	29	2.3	2	1.1	0	0.0	56	1.9	1	0.6	2	5.6	0	0.0	90	1.8
Washington	23	1.8	8	4.4	2	2.1	19	0.7	5	3.2	0	0.0	0	0.0	57	1.2
West Virginia	18	1.4	3	1.6	2	2.1	33	1.1	2	1.3	1	2.8	0	0.0	59	1.2
Wisconsin	42	3.3	6	3.3	1	1.1	55	1.9	1	0.6	0	0.0	0	0.0	105	2.1
Wyoming	9	0.7	2	1.1	0	0.0	16	0.6	2	1.3	0	0.0	0	0.0	29	0.6
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0

\* In these states, truck configuration was unknown in at least 10% of the 2002 cases. The states did not supply all needed police reports.

\*\* "Other combinations" includes one triple-trailer involvement in Nevada.

## Temporal distributions

**Table 2-2**  
**Fatal Truck Involvements by Month and Truck Configuration**  
**TIFA 2002**

Month of accident	Strt truck		Strt/1 trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
January	88	6.9	10	5.5	10	10.5	259	9.0	13	8.4	3	8.3	18	5.6	401	8.1
February	82	6.4	4	2.2	6	6.3	206	7.2	12	7.8	2	5.6	34	10.6	346	7.0
March	108	8.4	20	10.9	7	7.4	265	9.2	16	10.4	2	5.6	21	6.5	439	8.9
April	100	7.8	10	5.5	4	4.2	191	6.6	12	7.8	1	2.8	23	7.2	341	6.9
May	90	7.0	26	14.2	11	11.6	238	8.3	13	8.4	2	5.6	25	7.8	405	8.2
June	115	9.0	20	10.9	4	4.2	264	9.2	12	7.8	2	5.6	27	8.4	444	9.0
July	116	9.0	20	10.9	9	9.5	246	8.6	11	7.1	2	5.6	24	7.5	428	8.6
August	136	10.6	21	11.5	6	6.3	242	8.4	15	9.7	5	13.9	25	7.8	450	9.1
September	114	8.9	17	9.3	13	13.7	232	8.1	17	11.0	2	5.6	22	6.9	417	8.4
October	130	10.1	15	8.2	9	9.5	266	9.2	15	9.7	3	8.3	38	11.8	476	9.6
November	101	7.9	13	7.1	7	7.4	244	8.5	9	5.8	7	19.4	34	10.6	415	8.4
December	104	8.1	7	3.8	9	9.5	224	7.8	9	5.8	5	13.9	30	9.3	388	7.8
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0

**Table 2-3**  
**Fatal Truck Involvements by Day of Week and Truck Configuration**  
**TIFA 2002**

Day of week	Strt truck		Strt/1 trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Sunday	49	3.8	12	6.6	4	4.2	210	7.3	3	1.9	0	0.0	24	7.5	302	6.1
Monday	214	16.7	31	16.9	20	21.1	448	15.6	25	16.2	6	16.7	46	14.3	790	16.0
Tuesday	244	19.0	37	20.2	12	12.6	450	15.6	28	18.2	6	16.7	54	16.8	831	16.8
Wednesday	238	18.5	28	15.3	13	13.7	510	17.7	24	15.6	5	13.9	40	12.5	858	17.3
Thursday	210	16.4	28	15.3	10	10.5	494	17.2	28	18.2	8	22.2	52	16.2	830	16.8
Friday	239	18.6	35	19.1	22	23.2	496	17.2	29	18.8	5	13.9	64	19.9	890	18.0
Saturday	90	7.0	12	6.6	14	14.7	269	9.4	17	11.0	6	16.7	41	12.8	449	9.1
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0

**Table 2-4**  
**Fatal Truck Involvements by Day Type and Truck Configuration**  
**TIFA 2002**

Day type	Strt truck		Strt/1 trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Work week	1145	89.2	159	86.9	77	81.1	2398	83.4	134	87.0	30	83.3	256	79.8	4199	84.8
Weekend	139	10.8	24	13.1	18	18.9	479	16.6	20	13.0	6	16.7	65	20.2	751	15.2
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	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**  
**TIFA 2002**

Time of accident	Strt truck		Strt/1 trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Midnight	16	1.2	2	1.1	2	2.1	87	3.0	4	2.6	0	0.0	21	6.5	132	2.7
1:00 AM	21	1.6	2	1.1	3	3.2	86	3.0	7	4.5	0	0.0	9	2.8	128	2.6
2:00 AM	12	0.9	3	1.6	1	1.1	101	3.5	11	7.1	0	0.0	9	2.8	137	2.8
3:00 AM	13	1.0	1	0.5	3	3.2	80	2.8	5	3.2	3	8.3	3	0.9	108	2.2
4:00 AM	20	1.6	4	2.2	1	1.1	91	3.2	2	1.3	1	2.8	7	2.2	126	2.5
5:00 AM	37	2.9	6	3.3	7	7.4	139	4.8	11	7.1	0	0.0	12	3.7	212	4.3
6:00 AM	65	5.1	9	4.9	3	3.2	145	5.0	9	5.8	3	8.3	9	2.8	243	4.9
7:00 AM	82	6.4	12	6.6	1	1.1	156	5.4	15	9.7	1	2.8	19	5.9	286	5.8
8:00 AM	70	5.5	4	2.2	5	5.3	135	4.7	4	2.6	1	2.8	11	3.4	230	4.6
9:00 AM	85	6.6	13	7.1	4	4.2	139	4.8	10	6.5	2	5.6	18	5.6	271	5.5
10:00 AM	107	8.3	11	6.0	2	2.1	133	4.6	6	3.9	3	8.3	14	4.4	276	5.6
11:00 AM	93	7.2	16	8.7	6	6.3	164	5.7	6	3.9	0	0.0	28	8.7	313	6.3
Noon	84	6.5	16	8.7	6	6.3	167	5.8	11	7.1	3	8.3	15	4.7	302	6.1
1:00 PM	102	7.9	17	9.3	7	7.4	149	5.2	10	6.5	3	8.3	28	8.7	316	6.4
2:00 PM	115	9.0	8	4.4	5	5.3	168	5.8	5	3.2	2	5.6	20	6.2	323	6.5
3:00 PM	90	7.0	21	11.5	6	6.3	147	5.1	6	3.9	5	13.9	25	7.8	300	6.1
4:00 PM	78	6.1	12	6.6	5	5.3	125	4.3	4	2.6	4	11.1	12	3.7	240	4.8
5:00 PM	54	4.2	10	5.5	5	5.3	112	3.9	2	1.3	2	5.6	18	5.6	203	4.1
6:00 PM	36	2.8	6	3.3	4	4.2	114	4.0	2	1.3	1	2.8	11	3.4	174	3.5
7:00 PM	25	1.9	2	1.1	5	5.3	92	3.2	4	2.6	1	2.8	8	2.5	137	2.8
8:00 PM	22	1.7	2	1.1	4	4.2	80	2.8	3	1.9	1	2.8	3	0.9	115	2.3
9:00 PM	20	1.6	1	0.5	5	5.3	97	3.4	5	3.2	0	0.0	6	1.9	134	2.7
10:00 PM	17	1.3	2	1.1	4	4.2	91	3.2	4	2.6	0	0.0	9	2.8	127	2.6
11:00 PM	18	1.4	3	1.6	1	1.1	78	2.7	8	5.2	0	0.0	5	1.6	113	2.3
Unknown	2	0.2	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	1	0.3	4	0.1
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0

**Table 2-6**  
**Fatal Truck Involvements by Time of Accident and Day Type**  
**TIFA 2002**

Time of accident	Work week		Weekend		Total	
	No.	Pct.	No.	Pct.	No.	Pct.
Midnight	100	2.4	32	4.3	132	2.7
1:00 AM	90	2.1	38	5.1	128	2.6
2:00 AM	107	2.5	30	4.0	137	2.8
3:00 AM	78	1.9	30	4.0	108	2.2
4:00 AM	98	2.3	28	3.7	126	2.5
5:00 AM	166	4.0	46	6.1	212	4.3
6:00 AM	208	5.0	35	4.7	243	4.9
7:00 AM	256	6.1	30	4.0	286	5.8
8:00 AM	206	4.9	24	3.2	230	4.6
9:00 AM	239	5.7	32	4.3	271	5.5
10:00 AM	237	5.6	39	5.2	276	5.6
11:00 AM	282	6.7	31	4.1	313	6.3
Noon	266	6.3	36	4.8	302	6.1
1:00 PM	283	6.7	33	4.4	316	6.4
2:00 PM	294	7.0	29	3.9	323	6.5
3:00 PM	269	6.4	31	4.1	300	6.1
4:00 PM	213	5.1	27	3.6	240	4.8
5:00 PM	166	4.0	37	4.9	203	4.1
6:00 PM	143	3.4	31	4.1	174	3.5
7:00 PM	107	2.5	30	4.0	137	2.8
8:00 PM	93	2.2	22	2.9	115	2.3
9:00 PM	107	2.5	27	3.6	134	2.7
10:00 PM	103	2.5	24	3.2	127	2.6
11:00 PM	84	2.0	29	3.9	113	2.3
Unknown	4	0.1	0	0.0	4	0.1
Total	4199	100.0	751	100.0	4950	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**  
**TIFA 2002**

Land use	Strt truck		Strt/1 trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Urban	476	37.1	61	33.3	34	35.8	820	28.5	54	35.1	9	25.0	145	45.2	1599	32.3
Rural	803	62.5	122	66.7	60	63.2	2048	71.2	100	64.9	27	75.0	176	54.8	3336	67.4
Unknown	5	0.4	0	0.0	1	1.1	9	0.3	0	0.0	0	0.0	0	0.0	15	0.3
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0

**Table 2-8  
Fatal Truck Involvements by Light Condition and Truck Configuration  
TIFA 2002**

Light condition	Strt truck		Strt/1 trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Daylight	1002	78.0	146	79.8	56	58.9	1728	60.1	84	54.5	26	72.2	216	67.3	3258	65.8
Dark	159	12.4	22	12.0	23	24.2	779	27.1	52	33.8	6	16.7	54	16.8	1095	22.1
Dark but lighted	83	6.5	7	3.8	11	11.6	249	8.7	12	7.8	2	5.6	39	12.1	403	8.1
Dawn	28	2.2	5	2.7	5	5.3	80	2.8	5	3.2	1	2.8	4	1.2	128	2.6
Dusk	10	0.8	2	1.1	0	0.0	35	1.2	1	0.6	1	2.8	8	2.5	57	1.2
Unknown	2	0.2	1	0.5	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	9	0.2
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0

**Table 2-9  
Fatal Truck Involvements by Roadway Surface Condition and Truck Configuration  
TIFA 2002**

Roadway surface condition	Strt truck		Strt/1 trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Dry	1083	84.3	145	79.2	78	82.1	2290	79.6	132	85.7	27	75.0	265	82.6	4020	81.2
Wet	156	12.1	29	15.8	14	14.7	445	15.5	14	9.1	7	19.4	48	15.0	713	14.4
Snow or slush	19	1.5	2	1.1	2	2.1	81	2.8	4	2.6	2	5.6	5	1.6	115	2.3
Ice	19	1.5	6	3.3	1	1.1	44	1.5	3	1.9	0	0.0	3	0.9	76	1.5
Sand, dirt, oil	3	0.2	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	8	0.2
Other	1	0.1	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Unknown	3	0.2	1	0.5	0	0.0	8	0.3	1	0.6	0	0.0	0	0.0	13	0.3
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0

**Table 2-10  
Fatal Truck Involvements by Weather Condition and Truck Configuration  
TIFA 2002**

Weather condition	Strt truck		Strt/1 trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Normal	1130	88.0	158	86.3	84	88.4	2380	82.7	129	83.8	28	77.8	279	86.9	4188	84.6
Rain	88	6.9	14	7.7	6	6.3	273	9.5	7	4.5	4	11.1	25	7.8	417	8.4
Sleet	3	0.2	1	0.5	0	0.0	12	0.4	0	0.0	0	0.0	3	0.9	19	0.4
Snow	21	1.6	4	2.2	2	2.1	84	2.9	5	3.2	2	5.6	7	2.2	125	2.5
Fog	29	2.3	3	1.6	2	2.1	80	2.8	10	6.5	2	5.6	3	0.9	129	2.6
Rain & fog	1	0.1	0	0.0	1	1.1	3	0.1	0	0.0	0	0.0	1	0.3	6	0.1
Sleet & fog	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Other	7	0.5	2	1.1	0	0.0	37	1.3	3	1.9	0	0.0	3	0.9	52	1.1
Unknown	4	0.3	1	0.5	0	0.0	7	0.2	0	0.0	0	0.0	0	0.0	12	0.2
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0



## Roadway distributions

**Table 2-11**  
**Fatal Truck Involvements by Roadway Function Class and Truck Configuration**  
**TIFA 2002**

Road function class	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<i>Urban</i>																
Interstate	86	6.7	15	8.2	7	7.4	341	11.9	24	15.6	3	8.3	29	9.0	505	10.2
Freeway/expressway	46	3.6	6	3.3	4	4.2	92	3.2	12	7.8	3	8.3	7	2.2	170	3.4
Other principal artery	147	11.4	19	10.4	12	12.6	242	8.4	10	6.5	2	5.6	55	17.1	487	9.8
Minor artery	81	6.3	11	6.0	4	4.2	74	2.6	5	3.2	1	2.8	32	10.0	208	4.2
Collector	28	2.2	5	2.7	0	0.0	25	0.9	2	1.3	0	0.0	8	2.5	68	1.4
Local street	88	6.9	5	2.7	7	7.4	46	1.6	1	0.6	0	0.0	14	4.4	161	3.3
Total urban	476	37.1	61	33.3	34	35.8	820	28.5	54	35.1	9	25.0	145	45.2	1599	32.3
<i>Rural</i>																
Interstate	73	5.7	23	12.6	6	6.3	612	21.3	37	24.0	8	22.2	17	5.3	776	15.7
Other principal artery	170	13.2	32	17.5	20	21.1	671	23.3	24	15.6	11	30.6	44	13.7	972	19.6
Minor artery	195	15.2	26	14.2	16	16.8	388	13.5	19	12.3	5	13.9	23	7.2	672	13.6
Major collector	204	15.9	24	13.1	11	11.6	254	8.8	16	10.4	3	8.3	41	12.8	553	11.2
Minor collector	49	3.8	4	2.2	1	1.1	46	1.6	0	0.0	0	0.0	25	7.8	125	2.5
Local road	107	8.3	13	7.1	6	6.3	72	2.5	4	2.6	0	0.0	26	8.1	228	4.6
Unknown rural	5	0.4	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	10	0.2
Total rural	803	62.5	122	66.7	60	63.2	2048	71.2	100	64.9	27	75.0	176	54.8	3336	67.4
Unknown	5	0.4	0	0.0	1	1.1	9	0.3	0	0.0	0	0.0	0	0.0	15	0.3
Total urban and rural	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0

**Table 2-12**  
**Fatal Truck Involvements by Route Signing and Truck Configuration**  
**TIFA 2002**

Route signing	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Interstate	156	12.1	39	21.3	13	13.7	948	33.0	63	40.9	12	33.3	46	14.3	1277	25.8
US highway	255	19.9	44	24.0	29	30.5	794	27.6	18	11.7	7	19.4	65	20.2	1212	24.5
State highway	439	34.2	48	26.2	29	30.5	784	27.3	50	32.5	13	36.1	109	34.0	1472	29.7
County road	224	17.4	33	18.0	8	8.4	144	5.0	16	10.4	0	0.0	28	8.7	453	9.2
Township	40	3.1	4	2.2	4	4.2	20	0.7	1	0.6	1	2.8	11	3.4	81	1.6
Municipality	125	9.7	11	6.0	9	9.5	109	3.8	6	3.9	0	0.0	38	11.8	298	6.0
Frontage road	5	0.4	0	0.0	1	1.1	17	0.6	0	0.0	1	2.8	2	0.6	26	0.5
Other	32	2.5	3	1.6	1	1.1	52	1.8	0	0.0	2	5.6	21	6.5	111	2.2
Unknown	8	0.6	1	0.5	1	1.1	9	0.3	0	0.0	0	0.0	1	0.3	20	0.4
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0

**Table 2-13**  
**Fatal Truck Involvements by Relation to Junction and Truck Configuration**  
**TIFA 2002**

Relation to junction	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<i>Noninterchange</i>																
Nonjunction	768	59.8	112	61.2	61	64.2	1941	67.5	119	77.3	29	80.6	182	56.7	3212	64.9
Intersection	336	26.2	42	23.0	18	18.9	564	19.6	18	11.7	4	11.1	91	28.3	1073	21.7
Intersection related	90	7.0	15	8.2	5	5.3	90	3.1	3	1.9	1	2.8	13	4.0	217	4.4
Driveway, alley, etc.	31	2.4	6	3.3	3	3.2	62	2.2	1	0.6	1	2.8	7	2.2	111	2.2
Entrance/exit ramp	3	0.2	1	0.5	0	0.0	21	0.7	2	1.3	0	0.0	0	0.0	27	0.5
Rail grade crossing	11	0.9	0	0.0	0	0.0	11	0.4	0	0.0	0	0.0	3	0.9	25	0.5
In crossover	6	0.5	1	0.5	1	1.1	23	0.8	0	0.0	0	0.0	0	0.0	31	0.6
Unknown	2	0.2	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	5	0.1
<i>Interchange area</i>																
Intersection	12	0.9	0	0.0	2	2.1	31	1.1	2	1.3	1	2.8	17	5.3	65	1.3
Intersection related	3	0.2	0	0.0	1	1.1	7	0.2	0	0.0	0	0.0	0	0.0	11	0.2
Driveway, alley, etc.	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Entrance/exit ramp	12	0.9	1	0.5	4	4.2	59	2.1	3	1.9	0	0.0	4	1.2	83	1.7
In crossover	0	0.0	1	0.5	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Other location	10	0.8	4	2.2	0	0.0	60	2.1	6	3.9	0	0.0	4	1.2	84	1.7
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
<b>Total</b>	<b>1284</b>	<b>100.0</b>	<b>183</b>	<b>100.0</b>	<b>95</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>36</b>	<b>100.0</b>	<b>321</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>

**Table 2-14**  
**Fatal Truck Involvements by Number of Travel Lanes and Truck Configuration**  
**TIFA 2002**

Number of travel lanes	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
1	3	0.2	1	0.5	0	0.0	13	0.5	0	0.0	0	0.0	3	0.9	20	0.4
2	1003	78.1	152	83.1	63	66.3	2122	73.8	114	74.0	23	63.9	234	72.9	3711	75.0
3	106	8.3	9	4.9	9	9.5	240	8.3	15	9.7	4	11.1	28	8.7	411	8.3
4	110	8.6	17	9.3	21	22.1	383	13.3	16	10.4	6	16.7	42	13.1	595	12.0
5	17	1.3	1	0.5	0	0.0	33	1.1	4	2.6	1	2.8	3	0.9	59	1.2
6	22	1.7	3	1.6	0	0.0	37	1.3	2	1.3	1	2.8	4	1.2	69	1.4
7	3	0.2	0	0.0	1	1.1	9	0.3	2	1.3	0	0.0	2	0.6	17	0.3
9	20	1.6	0	0.0	1	1.1	40	1.4	1	0.6	1	2.8	5	1.6	68	1.4
<b>Total</b>	<b>1284</b>	<b>100.0</b>	<b>183</b>	<b>100.0</b>	<b>95</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>36</b>	<b>100.0</b>	<b>321</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>

**Table 2-15**  
**Fatal Truck Involvements by Trafficway Flow and Truck Configuration**  
**TIFA 2002**

Trafficway flow	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Not divided	858	66.8	112	61.2	59	62.1	1339	46.5	67	43.5	18	50.0	196	61.1	2649	53.5
Median-no barrier	277	21.6	53	29.0	29	30.5	1113	38.7	56	36.4	12	33.3	91	28.3	1631	32.9
Median w/barrier	100	7.8	12	6.6	5	5.3	363	12.6	28	18.2	4	11.1	27	8.4	539	10.9
One way traffic	15	1.2	0	0.0	1	1.1	13	0.5	0	0.0	1	2.8	4	1.2	34	0.7
2-way, left turn median	21	1.6	6	3.3	0	0.0	38	1.3	1	0.6	1	2.8	2	0.6	69	1.4
Unknown	13	1.0	0	0.0	1	1.1	11	0.4	2	1.3	0	0.0	1	0.3	28	0.6
<b>Total</b>	<b>1284</b>	<b>100.0</b>	<b>183</b>	<b>100.0</b>	<b>95</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>36</b>	<b>100.0</b>	<b>321</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>

**Table 2-16**  
**Fatal Truck Involvements by Speed Limit and Truck Configuration**  
**TIFA 2002**

Speed limit	Strt truck		Strt/1 trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
No. stat. limit	4	0.3	0	0.0	0	0.0	3	0.1	1	0.6	0	0.0	1	0.3	9	0.2
10	1	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
15	3	0.2	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	5	0.1
20	1	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
25	38	3.0	4	2.2	0	0.0	22	0.8	1	0.6	0	0.0	6	1.9	71	1.4
30	40	3.1	4	2.2	4	4.2	33	1.1	0	0.0	0	0.0	14	4.4	95	1.9
35	102	7.9	9	4.9	7	7.4	112	3.9	4	2.6	1	2.8	19	5.9	254	5.1
40	63	4.9	4	2.2	8	8.4	76	2.6	5	3.2	1	2.8	18	5.6	175	3.5
45	176	13.7	26	14.2	9	9.5	254	8.8	8	5.2	4	11.1	43	13.4	520	10.5
50	73	5.7	5	2.7	3	3.2	103	3.6	1	0.6	3	8.3	19	5.9	207	4.2
55	505	39.3	70	38.3	36	37.9	1004	34.9	60	39.0	14	38.9	109	34.0	1798	36.3
60	54	4.2	10	5.5	6	6.3	146	5.1	9	5.8	0	0.0	17	5.3	242	4.9
65	126	9.8	20	10.9	12	12.6	601	20.9	40	26.0	5	13.9	45	14.0	849	17.2
70	59	4.6	21	11.5	8	8.4	385	13.4	18	11.7	8	22.2	12	3.7	511	10.3
75	8	0.6	7	3.8	1	1.1	115	4.0	6	3.9	0	0.0	1	0.3	138	2.8
Unknown	31	2.4	3	1.6	1	1.1	17	0.6	1	0.6	0	0.0	17	5.3	70	1.4
<b>Total</b>	<b>1284</b>	<b>100.0</b>	<b>183</b>	<b>100.0</b>	<b>95</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>36</b>	<b>100.0</b>	<b>321</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>

## Accident description

**Table 2-17**  
**Fatal Truck Involvements by Accident Type and Truck Configuration**  
**TIFA 2002**

Accident type	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<i>Single vehicle</i>																
Ran off road	115	9.0	16	8.7	8	8.4	210	7.3	15	9.7	0	0.0	1	0.3	365	7.4
Hit object in road	144	11.2	8	4.4	7	7.4	173	6.0	12	7.8	0	0.0	1	0.3	345	7.0
<i>Same direction, same trafficway</i>																
Rearend, truck striking	50	3.9	11	6.0	2	2.1	173	6.0	15	9.7	3	8.3	0	0.0	254	5.1
Rearend, truck struck	122	9.5	17	9.3	8	8.4	248	8.6	9	5.8	4	11.1	0	0.0	408	8.2
Sideswipe, in other's lane	5	0.4	0	0.0	0	0.0	22	0.8	2	1.3	1	2.8	0	0.0	30	0.6
Sideswipe, in truck's lane	17	1.3	4	2.2	4	4.2	93	3.2	6	3.9	2	5.6	0	0.0	126	2.5
<i>Opposite direction, same trafficway</i>																
Head-on, in other's lane	26	2.0	2	1.1	2	2.1	21	0.7	2	1.3	1	2.8	0	0.0	54	1.1
Head-on, in truck's lane	136	10.6	20	10.9	8	8.4	269	9.4	19	12.3	2	5.6	0	0.0	454	9.2
Sideswipe, in other's lane	32	2.5	1	0.5	5	5.3	37	1.3	4	2.6	1	2.8	0	0.0	80	1.6
Sideswipe, in truck's lane	95	7.4	18	9.8	11	11.6	248	8.6	6	3.9	3	8.3	0	0.0	381	7.7
<i>Change trafficway, one vehicle turning</i>																
Truck turn across path	33	2.6	8	4.4	3	3.2	105	3.6	3	1.9	0	0.0	1	0.3	153	3.1
Other turn across path	106	8.3	11	6.0	7	7.4	175	6.1	1	0.6	3	8.3	0	0.0	303	6.1
<i>Intersecting paths, both going straight</i>																
Truck into side of other	136	10.6	19	10.4	9	9.5	220	7.6	8	5.2	1	2.8	1	0.3	394	8.0
Other into side of truck	43	3.3	5	2.7	3	3.2	97	3.4	7	4.5	2	5.6	0	0.0	157	3.2
<i>Other accident types</i>																
Truck backed into other	4	0.3	1	0.5	1	1.1	16	0.6	0	0.0	2	5.6	0	0.0	24	0.5
Other backed into truck	0	0.0	1	0.5	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Untripped roll	15	1.2	2	1.1	0	0.0	26	0.9	0	0.0	0	0.0	0	0.0	43	0.9
Other	135	10.5	29	15.8	11	11.6	502	17.4	34	22.1	9	25.0	1	0.3	721	14.6
Unknown	70	5.5	10	5.5	6	6.3	239	8.3	11	7.1	2	5.6	316	98.4	654	13.2
<b>Total</b>	<b>1284</b>	<b>100.0</b>	<b>183</b>	<b>100.0</b>	<b>95</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>36</b>	<b>100.0</b>	<b>321</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>

**Table 2-18**  
**Fatal Truck Involvements by First Harmful Event and Truck Configuration**  
**TIFA 2002**

First harmful event	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<i>Noncollision event</i>																
Overturn	62	4.8	11	6.0	1	1.1	119	4.1	5	3.2	0	0.0	11	3.4	209	4.2
Fell from vehicle	8	0.6	2	1.1	1	1.1	4	0.1	0	0.0	0	0.0	9	2.8	24	0.5
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	2	0.2	0	0.0	0	0.0	12	0.4	1	0.6	0	0.0	0	0.0	15	0.3
Thrown or falling object	0	0.0	0	0.0	0	0.0	3	0.1	1	0.6	0	0.0	1	0.3	5	0.1
Occ. struck/run over by own veh.	2	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	3	0.1
<i>Collision with nonfixed object</i>																
Pedestrian	102	7.9	7	3.8	6	6.3	118	4.1	10	6.5	2	5.6	33	10.3	278	5.6
Pedalcycle	25	1.9	1	0.5	1	1.1	36	1.3	2	1.3	0	0.0	5	1.6	70	1.4
Railway train	11	0.9	0	0.0	0	0.0	8	0.3	0	0.0	0	0.0	2	0.6	21	0.4
Animal	3	0.2	1	0.5	1	1.1	8	0.3	0	0.0	0	0.0	0	0.0	13	0.3
Motor vehicle in transport	939	73.1	139	76.0	75	78.9	2194	76.3	108	70.1	32	88.9	231	72.0	3718	75.1
Veh. in transport - other roadway	22	1.7	6	3.3	2	2.1	121	4.2	9	5.8	1	2.8	6	1.9	167	3.4
Parked motor vehicle	10	0.8	1	0.5	0	0.0	27	0.9	0	0.0	0	0.0	1	0.3	39	0.8
Other object - not fixed	2	0.2	1	0.5	0	0.0	11	0.4	1	0.6	0	0.0	0	0.0	15	0.3
Transport device used as equip	0	0.0	0	0.0	0	0.0	4	0.1	1	0.6	0	0.0	0	0.0	5	0.1
Ridden animal/conveyance	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>Collision with fixed object</i>																
Building	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Impact attenuator	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Bridge pier or abutment	3	0.2	0	0.0	0	0.0	10	0.3	0	0.0	0	0.0	2	0.6	15	0.3
Bridge parapet end	1	0.1	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Bridge rail	3	0.2	0	0.0	0	0.0	14	0.5	1	0.6	0	0.0	0	0.0	18	0.4
Guardrail	15	1.2	3	1.6	1	1.1	78	2.7	3	1.9	0	0.0	2	0.6	102	2.1
Concrete traffic barrier	6	0.5	3	1.6	0	0.0	18	0.6	4	2.6	0	0.0	2	0.6	33	0.7
Other longitudinal barrier type	1	0.1	0	0.0	0	0.0	1	0.0	1	0.6	0	0.0	0	0.0	3	0.1
Highway/traffic sign post	3	0.2	0	0.0	0	0.0	7	0.2	0	0.0	0	0.0	0	0.0	10	0.2
Luminaire/light support	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Utility pole	6	0.5	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	2	0.6	12	0.2
Other post, pole or supports	4	0.3	1	0.5	1	1.1	4	0.1	0	0.0	1	2.8	0	0.0	11	0.2
Culvert	2	0.2	0	0.0	0	0.0	5	0.2	1	0.6	0	0.0	3	0.9	11	0.2
Curb	1	0.1	0	0.0	1	1.1	2	0.1	2	1.3	0	0.0	0	0.0	6	0.1
Ditch	10	0.8	0	0.0	1	1.1	12	0.4	1	0.6	0	0.0	2	0.6	26	0.5
Embankment - earth	3	0.2	0	0.0	0	0.0	3	0.1	1	0.6	0	0.0	3	0.9	10	0.2
Embankment - rock, stone, etc.	1	0.1	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Embankment - type unknown	8	0.6	1	0.5	0	0.0	10	0.3	0	0.0	0	0.0	0	0.0	19	0.4
Fence	3	0.2	2	1.1	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	11	0.2
Wall	2	0.2	1	0.5	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Shrubbery	1	0.1	0	0.0	1	1.1	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Tree	14	1.1	2	1.1	2	2.1	16	0.6	0	0.0	0	0.0	4	1.2	38	0.8
Other fixed object	7	0.5	1	0.5	1	1.1	4	0.1	2	1.3	0	0.0	1	0.3	16	0.3
<b>Total</b>	<b>1284</b>	<b>100.0</b>	<b>183</b>	<b>100.0</b>	<b>95</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>36</b>	<b>100.0</b>	<b>321</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>

**Table 2-19**  
**Fatal Truck Involvements by Vehicle Role in Accident and Truck Configuration**  
**TIFA 2002**

Vehicle role	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Non-collision	44	3.4	8	4.4	2	2.1	66	2.3	3	1.9	0	0.0	17	5.3	140	2.8
Striking	703	54.8	86	47.0	50	52.6	1434	49.8	80	51.9	21	58.3	170	53.0	2544	51.4
Struck	493	38.4	77	42.1	41	43.2	1282	44.6	63	40.9	13	36.1	123	38.3	2092	42.3
Both	40	3.1	11	6.0	1	1.1	94	3.3	8	5.2	2	5.6	10	3.1	166	3.4
Unknown	4	0.3	1	0.5	1	1.1	1	0.0	0	0.0	0	0.0	1	0.3	8	0.2
<b>Total</b>	<b>1284</b>	<b>100.0</b>	<b>183</b>	<b>100.0</b>	<b>95</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>36</b>	<b>100.0</b>	<b>321</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>

**Table 2-20**  
**Fatal Truck Involvements by Manner of Collision and Truck Configuration**  
**TIFA 2002**

Manner of collision	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Not applicable	323	25.2	38	20.8	18	18.9	562	19.5	37	24.0	3	8.3	84	26.2	1065	21.5
Rear-end	210	16.4	32	17.5	14	14.7	584	20.3	38	24.7	10	27.8	38	11.8	926	18.7
Head-on	207	16.1	29	15.8	15	15.8	431	15.0	27	17.5	4	11.1	46	14.3	759	15.3
Front-to-side: same direction	32	2.5	9	4.9	4	4.2	96	3.3	5	3.2	2	5.6	9	2.8	157	3.2
Front-to-side: opp direction	152	11.8	25	13.7	14	14.7	355	12.3	9	5.8	5	13.9	43	13.4	603	12.2
Front-to-side: right angle	281	21.9	37	20.2	20	21.1	606	21.1	26	16.9	7	19.4	73	22.7	1050	21.2
Front-to-side: other	7	0.5	0	0.0	1	1.1	23	0.8	1	0.6	1	2.8	5	1.6	38	0.8
Sideswipe: same direction	17	1.3	4	2.2	3	3.2	89	3.1	6	3.9	2	5.6	8	2.5	129	2.6
Sideswipe: opp direction	47	3.7	6	3.3	6	6.3	91	3.2	3	1.9	2	5.6	12	3.7	167	3.4
Rear-to-side	2	0.2	1	0.5	0	0.0	16	0.6	0	0.0	0	0.0	2	0.6	21	0.4
Rear-to-rear	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	4	0.3	2	1.1	0	0.0	20	0.7	2	1.3	0	0.0	0	0.0	28	0.6
Unknown	2	0.2	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	1	0.3	6	0.1
<b>Total</b>	<b>1284</b>	<b>100.0</b>	<b>183</b>	<b>100.0</b>	<b>95</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>36</b>	<b>100.0</b>	<b>321</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>

**Table 2-21**  
**Fatal Truck Involvements by Rollover Status and Truck Configuration**  
**TIFA 2002**

Truck rollover status	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
No rollover	1069	83.3	156	85.2	85	89.5	2528	87.9	132	85.7	33	91.7	286	89.1	4289	86.6
First event	57	4.4	8	4.4	1	1.1	108	3.8	5	3.2	0	0.0	9	2.8	188	3.8
Subsequent event	158	12.3	19	10.4	9	9.5	241	8.4	17	11.0	3	8.3	26	8.1	473	9.6
<b>Total</b>	<b>1284</b>	<b>100.0</b>	<b>183</b>	<b>100.0</b>	<b>95</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>36</b>	<b>100.0</b>	<b>321</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>

**Table 2-22**  
**Fatal Truck Involvements by Jackknife Status and Truck Configuration**  
**TIFA 2002**

Truck jackknife status	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
None	1284	100.0	181	98.9	95	100.0	2649	92.1	136	88.3	35	97.2	318	99.1	4698	94.9
First event	0	0.0	1	0.5	0	0.0	70	2.4	3	1.9	0	0.0	2	0.6	76	1.5
Subsequent event	0	0.0	1	0.5	0	0.0	158	5.5	15	9.7	1	2.8	1	0.3	176	3.6
<b>Total</b>	<b>1284</b>	<b>100.0</b>	<b>183</b>	<b>100.0</b>	<b>95</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>36</b>	<b>100.0</b>	<b>321</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>

**Table 2-23**  
**Fatal Truck Involvements by Fire Occurrence and Truck Configuration**  
**TIFA 2002**

Truck fire occurrence	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
No fire	1242	96.7	173	94.5	92	96.8	2693	93.6	144	93.5	34	94.4	315	98.1	4693	94.8
Fire in vehicle	42	3.3	10	5.5	3	3.2	184	6.4	10	6.5	2	5.6	6	1.9	257	5.2
<b>Total</b>	<b>1284</b>	<b>100.0</b>	<b>183</b>	<b>100.0</b>	<b>95</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>36</b>	<b>100.0</b>	<b>321</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>

**Table 2-24**  
**Fatal Truck Involvements by Cargo Spillage and Truck Configuration**  
**TIFA 2002**

Truck cargo spillage	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
None	1049	81.7	142	77.6	9	9.5	2371	82.4	123	79.9	29	80.6	4	1.2	3727	75.3
Nonhazardous	190	14.8	34	18.6	0	0.0	398	13.8	26	16.9	4	11.1	1	0.3	653	13.2
Hazardous	14	1.1	2	1.1	0	0.0	44	1.5	5	3.2	1	2.8	0	0.0	66	1.3
Unknown	31	2.4	5	2.7	86	90.5	64	2.2	0	0.0	2	5.6	316	98.4	504	10.2
<b>Total</b>	<b>1284</b>	<b>100.0</b>	<b>183</b>	<b>100.0</b>	<b>95</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>36</b>	<b>100.0</b>	<b>321</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>

## ***Vehicle***

This section provides statistics that describe the physical configuration of trucks involved in a fatal accident in 2002. The tables cover truck configuration, cargo body and cargo type, cab style, truck model year, overall weight and length of the trucks, and the type of carrier that operated the truck. Of the 4,950 trucks involved in a fatal accident in 2002, there were 2,877 tractor-semitrailers, 1,284 straight trucks with no trailer, 183 straight trucks pulling a trailer, 95 bobtail tractors, and 154 tractors pulling two trailers.

- Straight trucks with no trailer represented 25.9% of all trucks involved in a fatal accident.
- Tractor-semitrailers accounted for 58.1% of the trucks.
- Over half of the tractor-semitrailers pulled a van trailer - either a dry box van or a refrigerated van.
- 24.3% of the straight trucks had dump bodies. The next most common straight truck cargo body was a van body, with 22.1%.
- 28.4% of the trucks were empty, 19.6% were carrying general freight, and 13.2% were carrying solids in bulk (gravel, soil, etc.) at the time of the accident.
- 10 trucks, all combination vehicles, were longer than 100 feet; 40 weighed more than 100,000 pounds.
- 72.7% of the trucks involved in a fatal accident were Class 8, the heaviest Gross Vehicle Weight Rating (GVWR) class.
- 45.8% of the trucks were operated by interstate for-hire carriers, 16.4% by interstate private carriers, and 15.3% by intrastate private carriers.
- 31.7% of the trucks were on local trips (within 50 miles of base) when involved in the fatal accident.





**Table 3-1  
Fatal Truck Involvements by Truck Configuration  
TIFA 2002**

Configuration	No.	Pct.
<i>Straight trucks</i>		
Straight truck only	1284	25.9
<i>Straight truck, 1 trailer</i>		
Straight + full trailer	44	0.9
Straight + other	97	2.0
Straight + other, gooseneck hitch	42	0.8
<i>Subtotal</i>	183	3.7
<i>Other straight combinations</i>		
Wrecker + tow	11	0.2
Straight + 2 full trailers	1	0.0
Straight, unknown if pulling trailer	2	0.0
<i>Subtotal</i>	14	0.3
<i>Total straight trucks</i>	1481	29.9
<i>Tractor combinations</i>		
<i>Tractor, no trailers</i>		
Bobtail tractor	87	1.8
Tractor carrying cargo	8	0.2
<i>Subtotal</i>	95	1.9
<i>Tractor, 1 trailer</i>		
Tractor and semitrailer	2877	58.1
Tractor + other (nonsemitrailer)	12	0.2
<i>Subtotal</i>	2889	58.4
<i>Tractor, 2 trailers</i>		
Double with A dolly	75	1.5
Double, B train	6	0.1
Double with unknown dolly	1	0.0
Tractor + semitrailer + full trailer	72	1.5
<i>Subtotal</i>	154	3.1
<i>Tractor, 3 trailers</i>		
Triple with A dollies	1	0.0
<i>Subtotal</i>	1	0.0
<i>Other tractor combinations</i>		
Tractor + jeep + semi + jeep	1	0.0
Tractor + semi + jeep	1	0.0
Tractor + jeep + semi	3	0.1
Tractor + 1 saddle mount tractor	2	0.0
Tractor + 2 saddle mount tractors	2	0.0
<i>Subtotal</i>	9	0.2
<i>Total tractors</i>	3148	63.6
<i>Unknown</i>	321	6.5
<b>Grand total</b>	<b>4950</b>	<b>100.0</b>

**Table 3-2**  
**Fatal Truck Involvements by Cargo Body Style and Truck Configuration**  
**TIFA 2002**

Cargo body style	Strt truck		Strt/1trailer		Bobtail		Trac/1semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Tractor/no trailer	0	0.0	0	0.0	95	100.0	0	0.0	0	0.0	0	0.0	0	0.0	95	1.9
Van	284	22.1	10	5.5	0	0.0	1157	40.2	70	45.5	1	2.8	0	0.0	1522	30.7
Open top van	4	0.3	0	0.0	0	0.0	38	1.3	2	1.3	0	0.0	0	0.0	44	0.9
Refrigerated van	52	4.0	0	0.0	0	0.0	396	13.8	2	1.3	0	0.0	0	0.0	450	9.1
Livestock carrier	0	0.0	0	0.0	0	0.0	45	1.6	0	0.0	0	0.0	0	0.0	45	0.9
Flatbed	74	5.8	19	10.4	0	0.0	361	12.5	27	17.5	4	11.1	0	0.0	485	9.8
Lowboy	0	0.0	0	0.0	0	0.0	54	1.9	0	0.0	5	13.9	0	0.0	59	1.2
Flatbed with equip.	24	1.9	4	2.2	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	32	0.6
Flatbed with sides	43	3.3	2	1.1	0	0.0	31	1.1	3	1.9	0	0.0	0	0.0	79	1.6
Pole/logging	6	0.5	7	3.8	0	0.0	104	3.6	0	0.0	0	0.0	0	0.0	117	2.4
Tank:liquid/gaseous	76	5.9	6	3.3	0	0.0	225	7.8	5	3.2	0	0.0	0	0.0	312	6.3
Tank:dry bulk	0	0.0	0	0.0	0	0.0	54	1.9	4	2.6	0	0.0	0	0.0	58	1.2
Auto carrier	0	0.0	18	9.8	0	0.0	21	0.7	0	0.0	0	0.0	0	0.0	39	0.8
Dump	312	24.3	59	32.2	0	0.0	236	8.2	6	3.9	2	5.6	0	0.0	615	12.4
Hopper bottom	1	0.1	1	0.5	0	0.0	94	3.3	34	22.1	0	0.0	0	0.0	130	2.6
Refuse	106	8.3	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	109	2.2
Other	284	22.1	57	31.1	0	0.0	32	1.1	1	0.6	23	63.9	0	0.0	397	8.0
Unknown	18	1.4	0	0.0	0	0.0	22	0.8	0	0.0	1	2.8	321	100.0	362	7.3
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0

**Table 3-3**  
**Fatal Truck Involvements by Type of Cargo and Truck Configuration**  
**TIFA 2002**

Type of cargo	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Empty/bobtail	420	32.7	98	53.6	87	91.6	756	26.3	45	29.2	2	5.6	0	0.0	1408	28.4
General freight	146	11.4	0	0.0	0	0.0	764	26.6	61	39.6	1	2.8	0	0.0	972	19.6
Household goods	24	1.9	6	3.3	0	0.0	15	0.5	1	0.6	0	0.0	0	0.0	46	0.9
Building materials	16	1.2	1	0.5	0	0.0	52	1.8	1	0.6	0	0.0	0	0.0	70	1.4
Metal (coils, sheets)	12	0.9	1	0.5	0	0.0	101	3.5	0	0.0	0	0.0	0	0.0	114	2.3
Heavy machinery	11	0.9	0	0.0	0	0.0	55	1.9	0	0.0	8	22.2	0	0.0	74	1.5
Large objects	4	0.3	0	0.0	0	0.0	55	1.9	2	1.3	0	0.0	0	0.0	61	1.2
Motor vehicles	12	0.9	14	7.7	0	0.0	15	0.5	0	0.0	1	2.8	0	0.0	42	0.8
Piggyback/towaway	0	0.0	0	0.0	8	8.4	0	0.0	0	0.0	10	27.8	0	0.0	18	0.4
Gases in bulk	13	1.0	1	0.5	0	0.0	12	0.4	0	0.0	0	0.0	0	0.0	26	0.5
Solids in bulk	292	22.7	29	15.8	0	0.0	313	10.9	21	13.6	0	0.0	0	0.0	655	13.2
Liquids in bulk	51	4.0	4	2.2	0	0.0	134	4.7	5	3.2	0	0.0	0	0.0	194	3.9
Explosives	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Logs/poles/lumber	16	1.2	4	2.2	0	0.0	122	4.2	3	1.9	0	0.0	0	0.0	145	2.9
Refrigerated foods	40	3.1	0	0.0	0	0.0	279	9.7	2	1.3	0	0.0	0	0.0	321	6.5
Mobile home	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	19.4	0	0.0	7	0.1
Farm products	25	1.9	1	0.5	0	0.0	53	1.8	11	7.1	0	0.0	0	0.0	90	1.8
Live animals	0	0.0	0	0.0	0	0.0	29	1.0	0	0.0	0	0.0	0	0.0	29	0.6
Other	148	11.5	20	10.9	0	0.0	6	0.2	1	0.6	1	2.8	0	0.0	176	3.6
Cargo, unk. type	6	0.5	1	0.5	0	0.0	20	0.7	0	0.0	0	0.0	0	0.0	27	0.5
Saddlemount tractor	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	11.1	0	0.0	4	0.1
Unknown	47	3.7	3	1.6	0	0.0	96	3.3	1	0.6	2	5.6	321	100.0	470	9.5
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0

**Table 3-4**  
**Fatal Truck Involvements by Cab Style and Truck Configuration**  
**TIFA 2002**

Cab style	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Conventional	1109	86.4	179	97.8	91	95.8	2719	94.5	132	85.7	33	91.7	7	2.2	4270	86.3
Cabover or cab-forward	171	13.3	4	2.2	4	4.2	142	4.9	22	14.3	3	8.3	0	0.0	346	7.0
Unknown	4	0.3	0	0.0	0	0.0	16	0.6	0	0.0	0	0.0	314	97.8	334	6.7
<b>Total</b>	<b>1284</b>	<b>100.0</b>	<b>183</b>	<b>100.0</b>	<b>95</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>36</b>	<b>100.0</b>	<b>321</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>

**Table 3-5**  
**Fatal Truck Involvements by Cab Style and Power Unit Model Year**  
**TIFA 2002**

Power unit model year	Conventional		Cabover		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
1947	1	0.0	0	0.0	0	0.0	1	0.0
1955	1	0.0	0	0.0	0	0.0	1	0.0
1956	1	0.0	0	0.0	0	0.0	1	0.0
1957	1	0.0	0	0.0	0	0.0	1	0.0
1963	1	0.0	0	0.0	0	0.0	1	0.0
1965	1	0.0	0	0.0	0	0.0	1	0.0
1967	1	0.0	0	0.0	0	0.0	1	0.0
1968	3	0.1	0	0.0	0	0.0	3	0.1
1969	2	0.0	0	0.0	0	0.0	2	0.0
1970	3	0.1	0	0.0	0	0.0	3	0.1
1971	6	0.1	0	0.0	0	0.0	6	0.1
1972	9	0.2	0	0.0	0	0.0	9	0.2
1973	9	0.2	0	0.0	0	0.0	9	0.2
1974	5	0.1	1	0.3	0	0.0	6	0.1
1975	6	0.1	2	0.6	1	0.3	9	0.2
1976	3	0.1	2	0.6	0	0.0	5	0.1
1977	7	0.2	3	0.9	0	0.0	10	0.2
1978	15	0.4	1	0.3	0	0.0	16	0.3
1979	21	0.5	4	1.2	0	0.0	25	0.5
1980	11	0.3	2	0.6	0	0.0	13	0.3
1981	15	0.4	4	1.2	0	0.0	19	0.4
1982	25	0.6	2	0.6	0	0.0	27	0.5
1983	13	0.3	2	0.6	0	0.0	15	0.3
1984	35	0.8	7	2.0	0	0.0	42	0.8
1985	48	1.1	13	3.8	0	0.0	61	1.2
1986	41	1.0	7	2.0	0	0.0	48	1.0
1987	69	1.6	3	0.9	0	0.0	72	1.5
1988	77	1.8	14	4.0	0	0.0	91	1.8
1989	89	2.1	7	2.0	1	0.3	97	2.0
1990	93	2.2	17	4.9	1	0.3	111	2.2
1991	85	2.0	14	4.0	0	0.0	99	2.0
1992	108	2.5	13	3.8	0	0.0	121	2.4
1993	176	4.1	34	9.8	1	0.3	211	4.3
1994	186	4.4	30	8.7	0	0.0	216	4.4
1995	320	7.5	22	6.4	1	0.3	343	6.9
1996	300	7.0	15	4.3	1	0.3	316	6.4
1997	309	7.2	16	4.6	0	0.0	325	6.6
1998	358	8.4	27	7.8	0	0.0	385	7.8
1999	468	11.0	28	8.1	0	0.0	496	10.0
2000	647	15.2	26	7.5	1	0.3	674	13.6
2001	398	9.3	19	5.5	0	0.0	417	8.4
2002	238	5.6	10	2.9	0	0.0	248	5.0
2003	59	1.4	1	0.3	0	0.0	60	1.2
Unknown	6	0.1	0	0.0	327	97.9	333	6.7
<b>Total</b>	<b>4270</b>	<b>100.0</b>	<b>346</b>	<b>100.0</b>	<b>334</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>

**Table 3-6  
Fatal Truck Involvements by Power Unit Model Year and Truck Configuration  
TIFA 2002**

Power unit model year	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
1947	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
1955	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
1956	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
1957	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
1963	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
1965	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
1967	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
1968	2	0.2	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
1969	2	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
1970	2	0.2	0	0.0	0	0.0	0	0.0	1	0.6	0	0.0	0	0.0	3	0.1
1971	5	0.4	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	6	0.1
1972	5	0.4	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	1	0.3	9	0.2
1973	6	0.5	1	0.5	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	9	0.2
1974	4	0.3	1	0.5	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	6	0.1
1975	3	0.2	0	0.0	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	9	0.2
1976	2	0.2	0	0.0	0	0.0	2	0.1	1	0.6	0	0.0	0	0.0	5	0.1
1977	6	0.5	0	0.0	1	1.1	1	0.0	1	0.6	0	0.0	1	0.3	10	0.2
1978	10	0.8	1	0.5	0	0.0	4	0.1	1	0.6	0	0.0	0	0.0	16	0.3
1979	11	0.9	5	2.7	1	1.1	6	0.2	2	1.3	0	0.0	0	0.0	25	0.5
1980	4	0.3	1	0.5	0	0.0	7	0.2	0	0.0	1	2.8	0	0.0	13	0.3
1981	10	0.8	0	0.0	0	0.0	8	0.3	0	0.0	1	2.8	0	0.0	19	0.4
1982	14	1.1	0	0.0	0	0.0	11	0.4	0	0.0	2	5.6	0	0.0	27	0.5
1983	9	0.7	0	0.0	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	15	0.3
1984	14	1.1	1	0.5	0	0.0	25	0.9	2	1.3	0	0.0	0	0.0	42	0.8
1985	23	1.8	2	1.1	2	2.1	31	1.1	2	1.3	1	2.8	0	0.0	61	1.2
1986	22	1.7	4	2.2	2	2.1	17	0.6	1	0.6	2	5.6	0	0.0	48	1.0
1987	41	3.2	3	1.6	3	3.2	24	0.8	1	0.6	0	0.0	0	0.0	72	1.5
1988	35	2.7	5	2.7	3	3.2	42	1.5	5	3.2	1	2.8	0	0.0	91	1.8
1989	30	2.3	6	3.3	1	1.1	54	1.9	4	2.6	1	2.8	1	0.3	97	2.0
1990	31	2.4	5	2.7	4	4.2	66	2.3	5	3.2	0	0.0	0	0.0	111	2.2
1991	38	3.0	3	1.6	1	1.1	51	1.8	5	3.2	1	2.8	0	0.0	99	2.0
1992	33	2.6	4	2.2	2	2.1	77	2.7	5	3.2	0	0.0	0	0.0	121	2.4
1993	56	4.4	7	3.8	7	7.4	125	4.3	11	7.1	4	11.1	1	0.3	211	4.3
1994	58	4.5	7	3.8	4	4.2	130	4.5	13	8.4	4	11.1	0	0.0	216	4.4
1995	98	7.6	8	4.4	9	9.5	214	7.4	10	6.5	4	11.1	0	0.0	343	6.9
1996	67	5.2	7	3.8	9	9.5	219	7.6	8	5.2	5	13.9	1	0.3	316	6.4
1997	82	6.4	19	10.4	7	7.4	208	7.2	7	4.5	1	2.8	1	0.3	325	6.6
1998	94	7.3	6	3.3	10	10.5	257	8.9	17	11.0	1	2.8	0	0.0	385	7.8
1999	130	10.1	23	12.6	3	3.2	324	11.3	11	7.1	5	13.9	0	0.0	496	10.0
2000	157	12.2	23	12.6	18	18.9	464	16.1	12	7.8	0	0.0	0	0.0	674	13.6
2001	98	7.6	24	13.1	6	6.3	269	9.4	19	12.3	0	0.0	1	0.3	417	8.4
2002	55	4.3	16	8.7	1	1.1	167	5.8	8	5.2	1	2.8	0	0.0	248	5.0
2003	15	1.2	0	0.0	1	1.1	41	1.4	2	1.3	1	2.8	0	0.0	60	1.2
Unknown	7	0.5	0	0.0	0	0.0	12	0.4	0	0.0	0	0.0	314	97.8	333	6.7
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0

**Table 3-7  
Fatal Truck Involvements by Truck Length and Truck Configuration  
TIFA 2002**

Truck length (feet)	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
< 16	3	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
16-20	179	13.9	0	0.0	10	10.5	0	0.0	0	0.0	0	0.0	0	0.0	189	3.8
21-25	406	31.6	2	1.1	57	60.0	0	0.0	0	0.0	0	0.0	0	0.0	465	9.4
26-30	377	29.4	1	0.5	20	21.1	1	0.0	0	0.0	0	0.0	0	0.0	399	8.1
31-35	193	15.0	10	5.5	7	7.4	4	0.1	0	0.0	1	2.8	1	0.3	216	4.4
36-40	64	5.0	29	15.8	0	0.0	25	0.9	0	0.0	1	2.8	0	0.0	119	2.4
41-45	7	0.5	22	12.0	0	0.0	69	2.4	0	0.0	1	2.8	0	0.0	99	2.0
46-50	2	0.2	26	14.2	0	0.0	54	1.9	0	0.0	4	11.1	0	0.0	86	1.7
51-55	1	0.1	23	12.6	0	0.0	132	4.6	1	0.6	3	8.3	1	0.3	161	3.3
56-60	0	0.0	20	10.9	0	0.0	418	14.5	6	3.9	1	2.8	0	0.0	445	9.0
61-65	0	0.0	12	6.6	0	0.0	822	28.6	20	13.0	2	5.6	0	0.0	856	17.3
66-70	0	0.0	11	6.0	0	0.0	859	29.9	23	14.9	1	2.8	0	0.0	894	18.1
71-75	0	0.0	17	9.3	0	0.0	345	12.0	67	43.5	1	2.8	1	0.3	431	8.7
76-80	0	0.0	3	1.6	0	0.0	25	0.9	18	11.7	2	5.6	1	0.3	49	1.0
81-85	0	0.0	1	0.5	0	0.0	1	0.0	6	3.9	2	5.6	0	0.0	10	0.2
86-90	0	0.0	0	0.0	0	0.0	0	0.0	4	2.6	0	0.0	0	0.0	4	0.1
91-95	0	0.0	0	0.0	0	0.0	1	0.0	6	3.9	3	8.3	0	0.0	10	0.2
96-100	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	3	8.3	0	0.0	4	0.1
101 +	0	0.0	0	0.0	0	0.0	2	0.1	3	1.9	4	11.1	1	0.3	10	0.2
Unknown	52	4.0	6	3.3	1	1.1	118	4.1	0	0.0	7	19.4	316	98.4	500	10.1
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0

**Table 3-8**  
**Fatal Truck Involvements by Gross Combination Weight and Truck Configuration**  
**TIFA 2002**

Gross combination weight (lbs)	Strt truck		Strt/1trailer		Bobtail		Trac/1semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<= 5,000	4	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1
5,001-10,000	173	13.5	6	3.3	1	1.1	0	0.0	0	0.0	0	0.0	0	0.0	180	3.6
10,001-15,000	221	17.2	16	8.7	15	15.8	0	0.0	0	0.0	4	11.1	0	0.0	256	5.2
15,001-20,000	103	8.0	21	11.5	66	69.5	7	0.2	0	0.0	2	5.6	0	0.0	199	4.0
20,001-25,000	136	10.6	9	4.9	5	5.3	45	1.6	4	2.6	2	5.6	1	0.3	202	4.1
25,001-30,000	104	8.1	13	7.1	3	3.2	342	11.9	17	11.0	1	2.8	0	0.0	480	9.7
30,001-35,000	41	3.2	13	7.1	0	0.0	360	12.5	13	8.4	2	5.6	0	0.0	429	8.7
35,001-40,000	29	2.3	7	3.8	0	0.0	140	4.9	8	5.2	2	5.6	1	0.3	187	3.8
40,001-45,000	22	1.7	3	1.6	0	0.0	87	3.0	5	3.2	1	2.8	0	0.0	118	2.4
45,001-50,000	35	2.7	1	0.5	0	0.0	87	3.0	8	5.2	1	2.8	0	0.0	132	2.7
50,001-55,000	38	3.0	4	2.2	0	0.0	87	3.0	6	3.9	3	8.3	0	0.0	138	2.8
55,001-60,000	29	2.3	6	3.3	0	0.0	78	2.7	10	6.5	1	2.8	0	0.0	124	2.5
60,001-65,000	21	1.6	4	2.2	0	0.0	109	3.8	7	4.5	1	2.8	0	0.0	142	2.9
65,001-70,000	33	2.6	2	1.1	0	0.0	171	5.9	6	3.9	1	2.8	0	0.0	213	4.3
70,001-75,000	19	1.5	3	1.6	0	0.0	300	10.4	8	5.2	0	0.0	0	0.0	330	6.7
75,001-80,000	10	0.8	13	7.1	0	0.0	499	17.3	15	9.7	1	2.8	0	0.0	538	10.9
80,001-85,000	2	0.2	1	0.5	0	0.0	42	1.5	1	0.6	0	0.0	0	0.0	46	0.9
85,001-90,000	1	0.1	0	0.0	0	0.0	18	0.6	2	1.3	0	0.0	0	0.0	21	0.4
90,001-95,000	0	0.0	0	0.0	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	6	0.1
95,001-100,000	0	0.0	1	0.5	0	0.0	10	0.3	0	0.0	0	0.0	0	0.0	11	0.2
100,001-110,000	0	0.0	2	1.1	0	0.0	7	0.2	8	5.2	0	0.0	0	0.0	17	0.3
110,001-120,000	0	0.0	0	0.0	0	0.0	6	0.2	2	1.3	0	0.0	0	0.0	8	0.2
120,001-130,000	0	0.0	1	0.5	0	0.0	0	0.0	1	0.6	1	2.8	0	0.0	3	0.1
130,001-140,000	0	0.0	1	0.5	0	0.0	1	0.0	1	0.6	0	0.0	0	0.0	3	0.1
140,001-150,000	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	1	2.8	0	0.0	3	0.1
150,001-160,000	0	0.0	0	0.0	0	0.0	0	0.0	2	1.3	0	0.0	0	0.0	2	0.0
160,001 and over	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	2	5.6	1	0.3	4	0.1
Unknown	263	20.5	56	30.6	5	5.3	472	16.4	30	19.5	10	27.8	318	99.1	1154	23.3
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0

**Table 3-9**  
**Fatal Truck Involvements by Gross Vehicle Weight Rating and Truck Configuration**  
**TIFA 2002**

Gross vehicle weight rating	Strt truck		Strt/1trailer		Bobtail		Trac/1semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Class 3: 10,001-14,000	233	18.1	57	31.1	0	0.0	0	0.0	0	0.0	1	2.8	0	0.0	291	5.9
Class 4: 14,001-16,000	61	4.8	4	2.2	0	0.0	0	0.0	0	0.0	3	8.3	0	0.0	68	1.4
Class 5: 16,001-19,500	33	2.6	8	4.4	0	0.0	0	0.0	0	0.0	1	2.8	0	0.0	42	0.8
Class 6: 19,501-26,000	206	16.0	10	5.5	0	0.0	2	0.1	0	0.0	2	5.6	1	0.3	221	4.5
Class 7: 26,001-33,000	166	12.9	21	11.5	8	8.4	85	3.0	54	35.1	6	16.7	0	0.0	340	6.9
Class 8: 33,001 or more	541	42.1	79	43.2	87	91.6	2774	96.4	92	59.7	22	61.1	6	1.9	3601	72.7
Unknown	44	3.4	4	2.2	0	0.0	16	0.6	8	5.2	1	2.8	314	97.8	387	7.8
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0

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

**Table 3-10**  
**Fatal Truck Involvements by Carrier Type and Truck Configuration**  
**TIFA 2002**

Carrier type	Strt truck		Strt/1trailer		Bobtail		Trac/1semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Interstate private	292	22.7	38	20.8	17	17.9	440	15.3	17	11.0	6	16.7	0	0.0	810	16.4
Interstate for-hire	129	10.0	27	14.8	53	55.8	1952	67.8	92	59.7	10	27.8	5	1.6	2268	45.8
Intrastate private	498	38.8	70	38.3	5	5.3	158	5.5	14	9.1	10	27.8	0	0.0	755	15.3
Intrastate for-hire	153	11.9	18	9.8	8	8.4	190	6.6	25	16.2	5	13.9	0	0.0	399	8.1
Government owned	48	3.7	3	1.6	0	0.0	11	0.4	0	0.0	0	0.0	0	0.0	62	1.3
Daily rental	30	2.3	8	4.4	1	1.1	0	0.0	0	0.0	0	0.0	1	0.3	40	0.8
Unknown	134	10.4	19	10.4	11	11.6	126	4.4	6	3.9	5	13.9	315	98.1	616	12.4
<b>Total</b>	<b>1284</b>	<b>100.0</b>	<b>183</b>	<b>100.0</b>	<b>95</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>36</b>	<b>100.0</b>	<b>321</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>

**Table 3-11**  
**Fatal Truck Involvements by Trip Type and Truck Configuration**  
**TIFA 2002**

Trip type	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Local	872	67.9	100	54.6	36	37.9	511	17.8	32	20.8	17	47.2	1	0.3	1569	31.7
51-100 miles	129	10.0	15	8.2	13	13.7	368	12.8	19	12.3	6	16.7	1	0.3	551	11.1
101-200	55	4.3	18	9.8	8	8.4	356	12.4	25	16.2	2	5.6	0	0.0	464	9.4
201-500	30	2.3	10	5.5	6	6.3	463	16.1	43	27.9	2	5.6	0	0.0	554	11.2
Over 500	17	1.3	16	8.7	5	5.3	666	23.1	13	8.4	5	13.9	0	0.0	722	14.6
Unk over-the-road dist.	25	1.9	5	2.7	1	1.1	139	4.8	4	2.6	0	0.0	1	0.3	175	3.5
Unknown	156	12.1	19	10.4	26	27.4	374	13.0	18	11.7	4	11.1	318	99.1	915	18.5
<b>Total</b>	<b>1284</b>	<b>100.0</b>	<b>183</b>	<b>100.0</b>	<b>95</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>36</b>	<b>100.0</b>	<b>321</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>





## ***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, licensing, previous driving record, and driver factors related to the accident.

- 2.7% of truck drivers involved in a fatal traffic accident had been drinking.
- Drug use was reported for 0.8% of truck drivers in a fatal crash.
- 96.0% of truck drivers involved in a fatal accident were male.
- 664 truck drivers were fatally injured in a traffic accident.
- 1.5% of truck drivers involved in a fatal accident were recorded as drowsy or asleep.
- Driving too fast was the most common driver factor recorded (7.7%), followed by ran-off-road (7.5%), and failure to stay in lane (5.2%).
- 61.1% of truck drivers had no driver factors recorded.

Injuries are classified according to severity under the following levels:

<b>Severity category</b>	<b>Definition</b>
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  
TIFA 2002**

Truck driver drinking	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
No drinking	1230	95.8	182	99.5	89	93.7	2822	98.1	151	98.1	36	100.0	304	94.7	4814	97.3
Drinking	54	4.2	1	0.5	6	6.3	55	1.9	3	1.9	0	0.0	17	5.3	136	2.7
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0

**Table 4-2  
Fatal Truck Involvements by Driver Drug Use and Truck Configuration  
TIFA 2002**

Truck driver drug use	Strt truck		Strt/1trailer		Bobtail		Trac/1semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
No drugs	448	34.9	59	32.2	35	36.8	999	34.7	47	30.5	15	41.7	111	34.6	1714	34.6
Drugs involved	12	0.9	1	0.5	0	0.0	27	0.9	0	0.0	0	0.0	2	0.6	42	0.8
Not reported	723	56.3	108	59.0	53	55.8	1647	57.2	88	57.1	18	50.0	197	61.4	2834	57.3
Reported unk	101	7.9	15	8.2	7	7.4	204	7.1	19	12.3	3	8.3	11	3.4	360	7.3
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0

**Table 4-3  
Fatal Truck Involvements by Driver Age and Truck Configuration  
TIFA 2002**

Age (years)	Strt truck		Strt/1trailer		Bobtail		Trac/1semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
16-20	25	1.9	4	2.2	1	1.1	5	0.2	1	0.6	0	0.0	11	3.4	47	0.9
21-25	109	8.5	11	6.0	5	5.3	129	4.5	2	1.3	2	5.6	30	9.3	288	5.8
26-30	150	11.7	21	11.5	7	7.4	286	9.9	9	5.8	2	5.6	40	12.5	515	10.4
31-35	176	13.7	27	14.8	10	10.5	354	12.3	19	12.3	5	13.9	40	12.5	631	12.7
36-40	202	15.7	33	18.0	15	15.8	417	14.5	23	14.9	5	13.9	32	10.0	727	14.7
41-45	162	12.6	21	11.5	18	18.9	462	16.1	39	25.3	4	11.1	41	12.8	747	15.1
46-50	141	11.0	22	12.0	9	9.5	392	13.6	20	13.0	4	11.1	42	13.1	630	12.7
51-55	115	9.0	17	9.3	9	9.5	340	11.8	18	11.7	4	11.1	33	10.3	536	10.8
56-60	87	6.8	9	4.9	12	12.6	268	9.3	15	9.7	2	5.6	20	6.2	413	8.3
61-65	54	4.2	9	4.9	5	5.3	123	4.3	5	3.2	3	8.3	13	4.0	212	4.3
66-70	20	1.6	3	1.6	3	3.2	51	1.8	2	1.3	4	11.1	7	2.2	90	1.8
71-75	10	0.8	2	1.1	0	0.0	20	0.7	1	0.6	0	0.0	1	0.3	34	0.7
> 75	14	1.1	1	0.5	0	0.0	4	0.1	0	0.0	0	0.0	1	0.3	20	0.4
Unknown	19	1.5	3	1.6	1	1.1	26	0.9	0	0.0	1	2.8	10	3.1	60	1.2
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0

**Table 4-4**  
**Fatal Truck Involvements by Driver Sex and Truck Configuration**  
**TIFA 2002**

Driver sex	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Male	1239	96.5	172	94.0	90	94.7	2766	96.1	151	98.1	34	94.4	300	93.5	4752	96.0
Female	28	2.2	9	4.9	4	4.2	86	3.0	3	1.9	1	2.8	13	4.0	144	2.9
Unknown	17	1.3	2	1.1	1	1.1	25	0.9	0	0.0	1	2.8	8	2.5	54	1.1
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0

**Table 4-5**  
**Fatal Truck Involvements by Driver Restraint Use and Truck Configuration**  
**TIFA 2002**

Restraint use	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
None used or N/A	314	24.5	31	16.9	15	15.8	393	13.7	21	13.6	9	25.0	81	25.2	864	17.5
Shoulder belt	4	0.3	2	1.1	0	0.0	7	0.2	0	0.0	0	0.0	1	0.3	14	0.3
Lap belt	77	6.0	10	5.5	8	8.4	141	4.9	7	4.5	0	0.0	14	4.4	257	5.2
Lap and shoulder	732	57.0	116	63.4	63	66.3	1987	69.1	106	68.8	22	61.1	144	44.9	3170	64.0
Used, type unk	41	3.2	7	3.8	3	3.2	98	3.4	3	1.9	1	2.8	38	11.8	191	3.9
Belt use improper	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	115	9.0	17	9.3	6	6.3	249	8.7	17	11.0	4	11.1	43	13.4	451	9.1
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0

**Table 4-6**  
**Fatal Truck Involvements by Driver Injury Severity and Truck Configuration**  
**TIFA 2002**

Driver injury severity	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Fatal injury (K)	202	15.7	25	13.7	10	10.5	352	12.2	29	18.8	1	2.8	45	14.0	664	13.4
Incapacitating (A)	101	7.9	9	4.9	6	6.3	115	4.0	8	5.2	3	8.3	18	5.6	260	5.3
Non-incapacitating (B)	147	11.4	17	9.3	15	15.8	251	8.7	12	7.8	4	11.1	36	11.2	482	9.7
Complaint of pain (C)	143	11.1	27	14.8	9	9.5	319	11.1	14	9.1	6	16.7	50	15.6	568	11.5
No injury (O)	672	52.3	102	55.7	54	56.8	1813	63.0	90	58.4	21	58.3	163	50.8	2915	58.9
Died prior to accident	0	0.0	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Unknown	19	1.5	3	1.6	1	1.1	24	0.8	1	0.6	1	2.8	9	2.8	58	1.2
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0

**Table 4-7**  
**Fatal Truck Involvements by Driver Injury Severity and Rollover, Fire, Ejection Status**  
**TIFA 2002**

Rollover, fire ejection	Fatal injury (K)		Incapaci- tating (A)		Non-incapa- citating (B)		Complaint of pain (C)		No injury (O)		Died prior to accident		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Rollover only	155	23.3	53	20.4	89	18.5	56	9.9	77	2.6	0	0.0	1	1.7	431	8.7
Fire only	54	8.1	13	5.0	29	6.0	19	3.3	42	1.4	0	0.0	0	0	157	3.2
Ejection only	68	10.2	5	1.9	6	1.2	1	0.2	1	0.0	0	0.0	0	0	81	1.6
Rollover and fire	55	8.3	6	2.3	5	1.0	4	0.7	5	0.2	2	66.7	0	0	77	1.6
Rollover & ejection	125	18.8	12	4.6	4	0.8	0	0.0	0	0.0	0	0.0	0	0	141	2.8
Fire and ejection	9	1.4	1	0.4	0	0.0	0	0.0	0	0.0	1	33.3	0	0	11	0.2
Rollover, fire, & eject	5	0.8	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	0	0	6	0.1
None	186	28.0	169	65.0	347	72.0	488	85.9	2789	95.7	0	0.0	18	31	3997	80.7
Unknown	7	1.1	1	0.4	1	0.2	0	0.0	1	0.0	0	0.0	39	67.2	49	1.0
Total	664	100.0	260	100.0	482	100.0	568	100.0	2915	100.0	3	100.0	58	100	4950	100.0

**Table 4-8**  
**Fatal Truck Involvements by Driver Extrication and Truck Configuration**  
**TIFA 2002**

Driver extrication	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Not extricated	1196	93.1	165	90.2	92	96.8	2708	94.1	150	97.4	35	97.2	298	92.8	4644	93.8
Extricated	67	5.2	13	7.1	2	2.1	144	5.0	4	2.6	0	0.0	15	4.7	245	4.9
Unknown	21	1.6	5	2.7	1	1.1	25	0.9	0	0.0	1	2.8	8	2.5	61	1.2
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0

**Table 4-9**  
**Fatal Truck Involvements by Reported Hours Driven and Truck Configuration**  
**TIFA 2002**

Hours driven	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
1 hr	304	23.7	38	20.8	24	25.3	434	15.1	17	11.0	11	30.6	0	0.0	828	16.7
2 hrs	133	10.4	27	14.8	2	2.1	315	10.9	22	14.3	4	11.1	0	0.0	503	10.2
3-4 hrs	171	13.3	25	13.7	9	9.5	468	16.3	40	26.0	5	13.9	2	0.6	720	14.5
5-6 hrs	97	7.6	12	6.6	8	8.4	294	10.2	13	8.4	1	2.8	0	0.0	425	8.6
7-8 hrs	61	4.8	8	4.4	5	5.3	166	5.8	15	9.7	4	11.1	0	0.0	259	5.2
9-10 hrs	9	0.7	3	1.6	1	1.1	83	2.9	4	2.6	0	0.0	0	0.0	100	2.0
11-12 hrs	1	0.1	0	0.0	1	1.1	7	0.2	1	0.6	0	0.0	0	0.0	10	0.2
13-18 hrs	1	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
> 18 hrs	0	0.0	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Unknown, legal	40	3.1	10	5.5	4	4.2	145	5.0	5	3.2	1	2.8	0	0.0	205	4.1
Unk, not legal	1	0.1	1	0.5	0	0.0	10	0.3	0	0.0	0	0.0	0	0.0	12	0.2
Unknown/NA	466	36.3	59	32.2	41	43.2	949	33.0	37	24.0	10	27.8	319	99.4	1881	38.0
Total	1284	100.0	183	100.0	95	100.0	2877	100.0	154	100.0	36	100.0	321	100.0	4950	100.0

**Table 4-10**  
**Fatal Truck Involvements by Number of Previous Accidents and Truck Configuration**  
**TIFA 2002**

No. of previous accidents	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
0	974	75.9	131	71.6	69	72.6	2136	74.2	116	75.3	28	77.8	255	79.4	3709	74.9
1	155	12.1	28	15.3	10	10.5	376	13.1	28	18.2	5	13.9	49	15.3	651	13.2
2	37	2.9	4	2.2	2	2.1	57	2.0	3	1.9	1	2.8	2	0.6	106	2.1
3	11	0.9	2	1.1	3	3.2	19	0.7	0	0.0	0	0.0	0	0.0	35	0.7
4	3	0.2	1	0.5	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	10	0.2
5	2	0.2	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	1	0.3	4	0.1
Not reported	74	5.8	10	5.5	9	9.5	152	5.3	3	1.9	1	2.8	3	0.9	252	5.1
Unknown	28	2.2	7	3.8	2	2.1	130	4.5	4	2.6	1	2.8	11	3.4	183	3.7
<b>Total</b>	<b>1284</b>	<b>100.0</b>	<b>183</b>	<b>100.0</b>	<b>95</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>36</b>	<b>100.0</b>	<b>321</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>

**Table 4-11**  
**Fatal Truck Involvements by Number of Previous Suspensions and Truck Configuration**  
**TIFA 2002**

No. of previous suspensions	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
0	1153	89.8	164	89.6	85	89.5	2560	89.0	147	95.5	32	88.9	281	87.5	4422	89.3
1	54	4.2	5	2.7	4	4.2	121	4.2	1	0.6	3	8.3	13	4.0	201	4.1
2	24	1.9	4	2.2	2	2.1	49	1.7	1	0.6	0	0.0	8	2.5	88	1.8
3	18	1.4	2	1.1	1	1.1	7	0.2	0	0.0	0	0.0	4	1.2	32	0.6
4	4	0.3	1	0.5	0	0.0	4	0.1	1	0.6	0	0.0	1	0.3	11	0.2
5	2	0.2	0	0.0	1	1.1	5	0.2	0	0.0	0	0.0	1	0.3	9	0.2
6	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	1	0.3	2	0.0
17	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	1	0.0
24	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	28	2.2	7	3.8	2	2.1	130	4.5	4	2.6	1	2.8	11	3.4	183	3.7
<b>Total</b>	<b>1284</b>	<b>100.0</b>	<b>183</b>	<b>100.0</b>	<b>95</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>36</b>	<b>100.0</b>	<b>321</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>

**Table 4-12**  
**Fatal Truck Involvements by Number of Previous Speeding Convictions and Truck Configuration**  
**TIFA 2002**

No. of previous speeding convs.	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
0	976	76.0	134	73.2	62	65.3	1910	66.4	129	83.8	24	66.7	240	74.8	3475	70.2
1	202	15.7	32	17.5	19	20.0	536	18.6	17	11.0	10	27.8	55	17.1	871	17.6
2	53	4.1	9	4.9	8	8.4	181	6.3	3	1.9	1	2.8	12	3.7	267	5.4
3	16	1.2	1	0.5	4	4.2	83	2.9	1	0.6	0	0.0	2	0.6	107	2.2
4	8	0.6	0	0.0	0	0.0	24	0.8	0	0.0	0	0.0	1	0.3	33	0.7
5	1	0.1	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	5	0.1
6	0	0.0	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	5	0.1
7	0	0.0	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	3	0.1
11	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Unknown	28	2.2	7	3.8	2	2.1	130	4.5	4	2.6	1	2.8	11	3.4	183	3.7
<b>Total</b>	<b>1284</b>	<b>100.0</b>	<b>183</b>	<b>100.0</b>	<b>95</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>36</b>	<b>100.0</b>	<b>321</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>

**Table 4-13**  
**Fatal Truck Involvements by Previous Other Moving Convictions and Truck Configuration**  
**TIFA 2002**

No. prev. other moving convs.	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
0	1003	78.1	132	72.1	63	66.3	1981	68.9	110	71.4	21	58.3	225	70.1	3535	71.4
1	187	14.6	29	15.8	20	21.1	496	17.2	26	16.9	10	27.8	67	20.9	835	16.9
2	42	3.3	12	6.6	6	6.3	169	5.9	8	5.2	1	2.8	14	4.4	252	5.1
3	17	1.3	2	1.1	4	4.2	62	2.2	5	3.2	2	5.6	3	0.9	95	1.9
4	4	0.3	1	0.5	0	0.0	17	0.6	1	0.6	1	2.8	1	0.3	25	0.5
5	3	0.2	0	0.0	0	0.0	14	0.5	0	0.0	0	0.0	0	0.0	17	0.3
6	0	0.0	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	4	0.1
7	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
8	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
12	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
14	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Unknown	28	2.2	7	3.8	2	2.1	130	4.5	4	2.6	1	2.8	11	3.4	183	3.7
<b>Total</b>	<b>1284</b>	<b>100.0</b>	<b>183</b>	<b>100.0</b>	<b>95</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>36</b>	<b>100.0</b>	<b>321</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>



**Table 4-14**  
**Fatal Truck Involvements by License Class Compliance and Truck Configuration**  
**TIFA 2002**

License class compliance	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Not licensed	10	0.8	3	1.6	0	0.0	3	0.1	0	0.0	0	0.0	2	0.6	18	0.4
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	82	6.4	7	3.8	1	1.1	47	1.6	6	3.9	3	8.3	22	6.9	168	3.4
Valid	1158	90.2	167	91.3	92	96.8	2692	93.6	143	92.9	31	86.1	275	85.7	4558	92.1
Unk if CDL req.	8	0.6	1	0.5	0	0.0	10	0.3	0	0.0	1	2.8	8	2.5	28	0.6
Unknown	25	1.9	5	2.7	2	2.1	125	4.3	5	3.2	1	2.8	14	4.4	177	3.6
<b>Total</b>	<b>1284</b>	<b>100.0</b>	<b>183</b>	<b>100.0</b>	<b>95</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>36</b>	<b>100.0</b>	<b>321</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>

**Table 4-15**  
**Fatal Truck Involvements by CDL License Status and Truck Configuration**  
**TIFA 2002**

CDL license status	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
No CDL	419	32.6	58	31.7	0	0.0	24	0.8	2	1.3	5	13.9	154	48.0	662	13.4
Suspended	11	0.9	1	0.5	0	0.0	16	0.6	1	0.6	1	2.8	2	0.6	32	0.6
Revoked	2	0.2	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Expired	5	0.4	1	0.5	0	0.0	3	0.1	0	0.0	0	0.0	1	0.3	10	0.2
Cancelled/denied	2	0.2	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Disqualified	1	0.1	0	0.0	1	1.1	6	0.2	0	0.0	0	0.0	0	0.0	8	0.2
Valid	806	62.8	118	64.5	92	96.8	2695	93.7	144	93.5	25	69.4	154	48.0	4034	81.5
Learner's permit	1	0.1	0	0.0	0	0.0	3	0.1	0	0.0	2	5.6	0	0.0	6	0.1
Other-not valid	10	0.8	0	0.0	0	0.0	4	0.1	3	1.9	1	2.8	0	0.0	18	0.4
Unknown	27	2.1	5	2.7	2	2.1	121	4.2	4	2.6	2	5.6	10	3.1	171	3.5
<b>Total</b>	<b>1284</b>	<b>100.0</b>	<b>183</b>	<b>100.0</b>	<b>95</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>36</b>	<b>100.0</b>	<b>321</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>

**Table 4-16**  
**Fatal Truck Involvements by License Endorsements and Truck Configuration**  
**TIFA 2002**

License endorsements	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
No endorsements	972	75.7	136	74.3	53	55.8	1668	58.0	27	17.5	24	66.7	276	86.0	3156	63.8
Complied	159	12.4	24	13.1	12	12.6	598	20.8	109	70.8	7	19.4	17	5.3	926	18.7
Not complied	6	0.5	5	2.7	0	0.0	33	1.1	1	0.6	0	0.0	1	0.3	46	0.9
Compliance unk	81	6.3	6	3.3	22	23.2	336	11.7	12	7.8	2	5.6	11	3.4	470	9.5
Unknown	66	5.1	12	6.6	8	8.4	242	8.4	5	3.2	3	8.3	16	5.0	352	7.1
<b>Total</b>	<b>1284</b>	<b>100.0</b>	<b>183</b>	<b>100.0</b>	<b>95</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>36</b>	<b>100.0</b>	<b>321</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>

**Table 4-17**  
**Fatal Truck Involvements by Driver-Related Factors and Truck Configuration**  
**TIFA 2002**

Driver-related factors	Strt truck		Strt/1trailer		Bobtail		Trac/1semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
None	749	58.3	110	60.1	57	60.0	1814	63.1	85	55.2	22	61.1	189	58.9	3026	61.1
<i>Physical/mental cond.</i>																
Drowsy, asleep	9	0.7	2	1.1	0	0.0	56	1.9	4	2.6	0	0.0	4	1.2	75	1.5
Ill, passed out, blackout	3	0.2	2	1.1	0	0.0	5	0.2	0	0.0	0	0.0	2	0.6	12	0.2
Depressed, angry	2	0.2	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	1	0.3	4	0.1
Reaction to drugs	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Inattentive	70	5.5	4	2.2	4	4.2	114	4.0	6	3.9	0	0.0	17	5.3	215	4.3
Impaired due to prev. injury	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 impairment	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
<i>Miscellaneous causes</i>																
Ran off road	108	8.4	17	9.3	9	9.5	204	7.1	13	8.4	0	0.0	20	6.2	371	7.5
Vehicle unattended	9	0.7	1	0.5	1	1.1	11	0.4	0	0.0	1	2.8	4	1.2	27	0.5
Improper loading	4	0.3	1	0.5	0	0.0	17	0.6	0	0.0	0	0.0	2	0.6	24	0.5
Improper towing	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	1	2.8	1	0.3	3	0.1
W/O req equipment	22	1.7	7	3.8	1	1.1	41	1.4	6	3.9	0	0.0	5	1.6	82	1.7
Improper tailing	20	1.6	2	1.1	0	0.0	47	1.6	2	1.3	1	2.8	2	0.6	74	1.5
Improper lane change	8	0.6	0	0.0	1	1.1	19	0.7	0	0.0	0	0.0	0	0.0	28	0.6
Failure to stay in lane	86	6.7	12	6.6	10	10.5	122	4.2	10	6.5	3	8.3	12	3.7	255	5.2
Driving on shoulder	1	0.1	0	0.0	1	1.1	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Improper entry/exit	1	0.1	0	0.0	0	0.0	6	0.2	0	0.0	0	0.0	1	0.3	8	0.2
Improper start/back	10	0.8	0	0.0	0	0.0	13	0.5	0	0.0	1	2.8	3	0.9	27	0.5
Prohibited passing	0	0.0	1	0.5	0	0.0	4	0.1	0	0.0	0	0.0	1	0.3	6	0.1
Passing-insufficient dist	7	0.5	1	0.5	0	0.0	12	0.4	1	0.6	0	0.0	2	0.6	23	0.5
Erratic/reckless	46	3.6	5	2.7	3	3.2	89	3.1	5	3.2	2	5.6	12	3.7	162	3.3
High speed chase	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	1	0.0
Failure to yield	77	6.0	8	4.4	5	5.3	101	3.5	1	0.6	0	0.0	15	4.7	207	4.2
Failure to obey signs	42	3.3	5	2.7	2	2.1	56	1.9	2	1.3	0	0.0	17	5.3	124	2.5
Passing around barrier	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Fail to observe warning	1	0.1	0	0.0	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	7	0.1
Failure to signal	2	0.2	0	0.0	0	0.0	1	0.0	0	0.0	1	2.8	0	0.0	4	0.1
Driving too fast	96	7.5	18	9.8	7	7.4	224	7.8	20	13.0	1	2.8	17	5.3	383	7.7
Under minimum speed	5	0.4	0	0.0	0	0.0	5	0.2	1	0.6	1	2.8	0	0.0	12	0.2
Racing	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Wrong lane turn	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 improper turn	16	1.2	4	2.2	3	3.2	28	1.0	3	1.9	0	0.0	3	0.9	57	1.2
Wrong side of road	9	0.7	0	0.0	0	0.0	8	0.3	1	0.6	0	0.0	0	0.0	18	0.4
Operator inexperience	1	0.1	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Unfamiliar w/roadway	2	0.2	0	0.0	0	0.0	3	0.1	0	0.0	1	2.8	1	0.3	7	0.1
Stopped in roadway	11	0.9	2	1.1	1	1.1	26	0.9	0	0.0	1	2.8	2	0.6	43	0.9
Locked wheel	2	0.2	1	0.5	1	1.1	8	0.3	1	0.6	0	0.0	0	0.0	13	0.3
Over correcting	29	2.3	1	0.5	1	1.1	17	0.6	2	1.3	0	0.0	6	1.9	56	1.1
On/Off moving vehicle	2	0.2	1	0.5	0	0.0	1	0.0	0	0.0	0	0.0	2	0.6	6	0.1

(continued on next page)

Table 4-17 (continued)

Driver-related factors	Strt truck		Strt/1trailer		Bobtail		Trac/1semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<i>Vision obscured by</i>																
Inclement weather	9	0.7	2	1.1	2	2.1	55	1.9	10	6.5	0	0.0	2	0.6	80	1.6
Glare	5	0.4	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	10	0.2
Curve, hill, etc.	0	0.0	0	0.0	0	0.0	6	0.2	0	0.0	0	0.0	1	0.3	7	0.1
Building, billboard	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Trees, crops, vegetation	5	0.4	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	7	0.1
Motor vehicle	2	0.2	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	3	0.9	10	0.2
Inadequate lighting system	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	2	0.0
Obstructing angles	6	0.5	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	1	0.3	12	0.2
Other obstruction	0	0.0	1	0.5	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
<i>Avoiding, swerving due to</i>																
Severe crosswind	0	0.0	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Slippery surface	1	0.1	1	0.5	0	0.0	1	0.0	2	1.3	0	0.0	0	0.0	5	0.1
Tire blowout or flat	11	0.9	0	0.0	0	0.0	4	0.1	1	0.6	0	0.0	0	0.0	16	0.3
Debris in road	0	0.0	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	5	0.1
Rut in road	1	0.1	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Live animal in road	4	0.3	0	0.0	1	1.1	4	0.1	0	0.0	0	0.0	0	0.0	9	0.2
Vehicle in road	11	0.9	3	1.6	0	0.0	28	1.0	4	2.6	0	0.0	5	1.6	51	1.0
Phantom vehicle	0	0.0	0	0.0	1	1.1	3	0.1	2	1.3	0	0.0	1	0.3	7	0.1
Pedestrian in road	1	0.1	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	6	0.1
Ice,water,snow on road	11	0.9	3	1.6	1	1.1	45	1.6	1	0.6	0	0.0	2	0.6	63	1.3
Trailer fishtailing	0	0.0	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	5	0.1
<i>Other misc. factors</i>																
Hit and run driver	8	0.6	0	0.0	0	0.0	19	0.7	0	0.0	0	0.0	3	0.9	30	0.6
Homocide	14	1.1	4	2.2	2	2.1	32	1.1	5	3.2	0	0.0	6	1.9	63	1.3
Other nonmoving viol.	27	2.1	1	0.5	1	1.1	36	1.3	2	1.3	1	2.8	11	3.4	79	1.6
<i>Possible distractions</i>																
Cellular phone	22	1.7	8	4.4	2	2.1	66	2.3	6	3.9	1	2.8	8	2.5	113	2.3
Cell phone in use	0	0.0	0	0.0	0	0.0	1	0.0	1	0.6	0	0.0	0	0.0	2	0.0
2-way radio	0	0.0	1	0.5	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Unknown	18	1.4	2	1.1	2	2.1	31	1.1	1	0.6	0	0.0	1	0.3	55	1.1
<b>Total</b>	<b>1284</b>	<b>100.0</b>	<b>183</b>	<b>100.0</b>	<b>95</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>36</b>	<b>100.0</b>	<b>321</b>	<b>100.0</b>	<b>4950</b>	<b>100.0</b>

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.

## ***Straight trucks***

This section provides descriptive statistics on straight trucks involved in a fatal traffic accident in 2002. 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 29.9% of all trucks involved in a fatal traffic accident in 2002.
- 42.1% of straight trucks were Class 8 (over 33,000 lbs.) Gross Vehicle Weight Rating (GVWR), and 19.6% were Class 3 (10,001-14,000 lbs.).
- The lightest straight trucks involved in a fatal accident in 2002 weighed 5,000 pounds or less; the heaviest straight truck combination weighed over 130,000 pounds.
- 35.0% of straight trucks were empty at the time of the accident; while solids in bulk was the most frequent cargo type, accounting for 21.7%.
- 51.9% 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 seven axles on the power unit and four axles on the trailer.
- 38.6% of straight trucks were operated by a private, intrastate carrier; 22.5% by a private, interstate carrier; and only 10.7% by a for-hire, interstate carrier.
- 66.0% of straight trucks were on a local trip (within 50 miles of base) at the time of the accident.
- 227 straight truck drivers were fatally injured in a traffic accident; 48.9% of the fatalities occurred in ran-off-road crashes.

Note: 352 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 concrete mixers, concrete pumps, or boom trucks.



## Configuration

**Table 5-1**  
**Fatal Truck Involvements by Truck Configuration**  
**TIFA 2002**

Configuration	No.	Pct.
<i>Straight truck only</i>	1284	86.7
<i>Straight truck, 1 trailer</i>		
Straight + full trailer	44	3.0
Straight + other	97	6.5
Straight + other, gooseneck hitch	42	2.8
<i>Subtotal</i>	183	12.4
<i>Other straight combinations</i>		
Wrecker + tow	11	0.7
Straight + 2 full trailers	1	0.1
Straight, unknown if pulling trailer	2	0.1
<i>Subtotal</i>	14	0.9
Total straight trucks	1481	100.0

**Table 5-2**  
**Fatal Truck Involvements by Cargo Body Style – Straight Trucks**  
**TIFA 2002**

Cargo body style	No.	Pct.
Van	294	19.9
Open top van	4	0.3
Refrigerated van	52	3.5
Flatbed	93	6.3
Flatbed with equipment	28	1.9
Flatbed with sides	45	3.0
Pole/logging	13	0.9
Tank:liquid/gas	82	5.5
Auto carrier	18	1.2
Dump	373	25.2
Hopper bottom	2	0.1
Garbage/refuse	106	7.2
Other	352	23.8
Unknown	19	1.3
Total	1481	100.0

**Table 5-3  
Fatal Truck Involvements by Gross Vehicle Weight Rating and Cargo Body Style – Straight Trucks  
TIFA 2002**

Gross vehicle weight rating (lbs)	Van		Flatbed		Tank		Dump		Refuse		Pole/logging		Other*		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Class 3: 10,001-14,000	89	25.4	40	24.1	2	2.4	6	1.6	1	0.9	0	0.0	149	40.3	4	21.1	291	19.6
Class 4: 14,001-16,000	25	7.1	11	6.6	2	2.4	7	1.9	0	0.0	1	7.7	21	5.7	1	5.3	68	4.6
Class 5: 16,001-19,500	20	5.7	11	6.6	1	1.2	0	0.0	0	0.0	0	0.0	10	2.7	0	0.0	42	2.8
Class 6: 19,501-26,000	113	32.3	28	16.9	8	9.8	17	4.5	4	3.8	0	0.0	44	11.9	4	21.1	218	14.7
Class 7: 26,001-33,000	76	21.7	21	12.7	28	34.1	26	6.9	7	6.6	0	0.0	28	7.6	3	15.8	189	12.8
Class 8: 33,001 or more	18	5.1	43	25.9	38	46.3	311	82.9	92	86.8	11	84.6	105	28.4	6	31.6	624	42.1
Unknown	9	2.6	12	7.2	3	3.7	8	2.1	2	1.9	1	7.7	13	3.5	1	5.3	49	3.3
<b>Total</b>	<b>350</b>	<b>100.0</b>	<b>166</b>	<b>100.0</b>	<b>82</b>	<b>100.0</b>	<b>375</b>	<b>100.0</b>	<b>106</b>	<b>100.0</b>	<b>13</b>	<b>100.0</b>	<b>370</b>	<b>100.0</b>	<b>19</b>	<b>100.0</b>	<b>1481</b>	<b>100.0</b>

\* Note: The Other category includes 18 auto carriers.  
Gross Vehicle Weight Rating (GVWR) pertains to the power unit.

**Table 5-4  
Fatal Truck Involvements by Gross Combination Weight and Cargo Body Style – Straight Trucks  
TIFA 2002**

Gross combination weight (lbs)	Van		Flatbed		Tank		Dump		Refuse		Pole/logging		Other*		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<= 5,000	0	0.0	2	1.2	0	0.0	0	0.0	0	0.0	0	0.0	2	0.5	0	0.0	4	0.3
5,001-10,000	51	14.6	41	24.7	3	3.7	9	2.4	1	0.9	0	0.0	74	20.0	0	0.0	179	12.1
10,001-15,000	104	29.7	32	19.3	6	7.3	23	6.1	2	1.9	0	0.0	73	19.7	1	5.3	241	16.3
15,001-20,000	45	12.9	19	11.4	11	13.4	19	5.1	3	2.8	1	7.7	27	7.3	0	0.0	125	8.4
20,001-25,000	28	8.0	11	6.6	6	7.3	72	19.2	8	7.5	0	0.0	21	5.7	0	0.0	146	9.9
25,001-30,000	10	2.9	7	4.2	13	15.9	55	14.7	14	13.2	1	7.7	18	4.9	0	0.0	118	8.0
30,001-35,000	5	1.4	3	1.8	9	11.0	12	3.2	15	14.2	1	7.7	9	2.4	0	0.0	54	3.6
35,001-40,000	3	0.9	5	3.0	3	3.7	7	1.9	7	6.6	2	15.4	10	2.7	0	0.0	37	2.5
40,001-45,000	1	0.3	3	1.8	4	4.9	7	1.9	8	7.5	0	0.0	2	0.5	0	0.0	25	1.7
45,001-50,000	1	0.3	2	1.2	4	4.9	17	4.5	6	5.7	0	0.0	7	1.9	0	0.0	37	2.5
50,001-55,000	1	0.3	0	0.0	2	2.4	24	6.4	9	8.5	0	0.0	5	1.4	1	5.3	42	2.8
55,001-60,000	1	0.3	1	0.6	2	2.4	13	3.5	3	2.8	1	7.7	14	3.8	0	0.0	35	2.4
60,001-65,000	0	0.0	0	0.0	1	1.2	10	2.7	2	1.9	0	0.0	13	3.5	0	0.0	26	1.8
65,001-70,000	0	0.0	0	0.0	0	0.0	25	6.7	2	1.9	0	0.0	8	2.2	0	0.0	35	2.4
70,001-75,000	0	0.0	1	0.6	0	0.0	14	3.7	2	1.9	2	15.4	3	0.8	0	0.0	22	1.5
75,001-80,000	0	0.0	1	0.6	1	1.2	12	3.2	1	0.9	0	0.0	8	2.2	0	0.0	23	1.6
80,001-85,000	0	0.0	0	0.0	0	0.0	1	0.3	0	0.0	1	7.7	1	0.3	0	0.0	3	0.2
85,001-90,000	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	0.1
90,001-95,000	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
95,001-100,000	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	0.1
100,001-110,000	0	0.0	0	0.0	1	1.2	0	0.0	0	0.0	1	7.7	0	0.0	0	0.0	2	0.1
110,001-120,000	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
120,001-130,000	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	0.1
130,001-140,000	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	0.1
Unknown	100	28.6	38	22.9	16	19.5	51	13.6	23	21.7	3	23.1	75	20.3	17	89.5	323	21.8
<b>Total</b>	<b>350</b>	<b>100.0</b>	<b>166</b>	<b>100.0</b>	<b>82</b>	<b>100.0</b>	<b>375</b>	<b>100.0</b>	<b>106</b>	<b>100.0</b>	<b>13</b>	<b>100.0</b>	<b>370</b>	<b>100.0</b>	<b>19</b>	<b>100.0</b>	<b>1481</b>	<b>100.0</b>

\* Note: The Other category includes 18 auto carriers.

**Table 5-5  
Fatal Truck Involvements by Cargo Type and Cargo Body Style – Straight Trucks  
TIFA 2002**

Cargo type	Van		Open top van		Refrigerated van		Flatbed		Flatbed with equip.		Flatbed with sides		Pole/logging		Tank liquid/gas	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Empty	63	21.4	0	0.0	9	17.3	42	45.2	11	39.3	12	26.7	6	46.2	15	18.3
General freight	130	44.2	0	0.0	2	3.8	5	5.4	0	0.0	5	11.1	0	0.0	0	0.0
Household goods	29	9.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Building materials	7	2.4	0	0.0	0	0.0	4	4.3	2	7.1	1	2.2	0	0.0	0	0.0
Metal (coils, sheets)	2	0.7	0	0.0	0	0.0	4	4.3	2	7.1	4	8.9	0	0.0	0	0.0
Heavy machinery	0	0.0	0	0.0	0	0.0	5	5.4	0	0.0	1	2.2	0	0.0	0	0.0
Large objects	1	0.3	0	0.0	0	0.0	0	0.0	2	7.1	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
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
Gases in bulk	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	14	17.1
Solids in bulk	17	5.8	0	0.0	1	1.9	6	6.5	0	0.0	5	11.1	0	0.0	0	0.0
Liquids in bulk	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	52	63.4
Explosives	1	0.3	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	0	0.0	0	0.0	9	9.7	1	3.6	1	2.2	6	46.2	0	0.0
Refrigerated foods	2	0.7	0	0.0	38	73.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Farm products	4	1.4	2	50.0	2	3.8	6	6.5	0	0.0	1	2.2	0	0.0	0	0.0
Other	22	7.5	1	25.0	0	0.0	11	11.8	8	28.6	14	31.1	1	7.7	1	1.2
Cargo, unk. type	3	1.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Unknown	13	4.4	1	25.0	0	0.0	1	1.1	2	7.1	1	2.2	0	0.0	0	0.0
<b>Total</b>	<b>294</b>	<b>100.0</b>	<b>4</b>	<b>100.0</b>	<b>52</b>	<b>100.0</b>	<b>93</b>	<b>100.0</b>	<b>28</b>	<b>100.0</b>	<b>45</b>	<b>100.0</b>	<b>13</b>	<b>100.0</b>	<b>82</b>	<b>100.0</b>

**Table 5-5 (continued)**

Cargo Type	Auto carrier		Dump		Hopper bottom		Refuse		Other		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Empty	4	22.2	176	47.2	1	50.0	30	28.3	150	42.6	0	0.0	519	35.0
General freight	0	0.0	0	0.0	0	0.0	1	0.9	3	0.9	0	0.0	146	9.9
Household goods	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	0	0.0	30	2.0
Building materials	0	0.0	1	0.3	0	0.0	0	0.0	2	0.6	0	0.0	17	1.1
Metal (coils, sheets)	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	13	0.9
Heavy machinery	0	0.0	1	0.3	0	0.0	0	0.0	4	1.1	0	0.0	11	0.7
Large objects	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	0	0.0	4	0.3
Motor vehicles	13	72.2	0	0.0	0	0.0	0	0.0	13	3.7	1	5.3	27	1.8
Piggyback/towaway	0	0.0	0	0.0	0	0.0	0	0.0	10	2.8	0	0.0	10	0.7
Gases in bulk	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	14	0.9
Solids in bulk	0	0.0	171	45.8	1	50.0	72	67.9	46	13.1	2	10.5	321	21.7
Liquids in bulk	0	0.0	0	0.0	0	0.0	0	0.0	2	0.6	1	5.3	55	3.7
Explosives	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	2	0.5	0	0.0	0	0.0	1	0.3	0	0.0	20	1.4
Refrigerated foods	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	40	2.7
Farm products	0	0.0	8	2.1	0	0.0	0	0.0	3	0.9	0	0.0	26	1.8
Other	0	0.0	6	1.6	0	0.0	0	0.0	102	29.0	2	10.5	168	11.3
Cargo, unk. type	0	0.0	2	0.5	0	0.0	0	0.0	2	0.6	0	0.0	7	0.5
Unknown	1	5.6	5	1.3	0	0.0	3	2.8	12	3.4	13	68.4	52	3.5
<b>Total</b>	<b>18</b>	<b>100.0</b>	<b>373</b>	<b>100.0</b>	<b>2</b>	<b>100.0</b>	<b>106</b>	<b>100.0</b>	<b>352</b>	<b>100.0</b>	<b>19</b>	<b>100.0</b>	<b>1481</b>	<b>100.0</b>



**Table 5-6**  
**Fatal Truck Involvements by Axle Combinations – Straight Truck Configurations**  
**TIFA 2002**

Straight only Power unit axles*	Strt/ 1 trlr Trailer axles*	Total	
		No.	Pct.
2		761	51.9
3		325	22.2
4		153	10.4
5		34	2.3
6		7	0.5
7		2	0.1
2	1	28	1.9
2	2	68	4.6
2	3	8	0.5
3	1	1	0.1
3	2	52	3.5
3	3	4	0.3
3	4	1	0.1
4	2	3	0.2
4	3	4	0.3
4	4	4	0.3
4	6	2	0.1
5	2	1	0.1
5	4	3	0.2
6	3	1	0.1
7	4	1	0.1
Unknown		4	0.3
Total		1467	100.0

\* Note: Axle counts include power unit axles plus lift axles not in use. Cases with unknown lift axles were counted as having 0 lift axles. The 14 other straight truck combinations were not included in this table.

## Vehicle use

**Table 5-7**  
**Fatal Truck Involvements by Carrier Type and Cargo Body Style – Straight Trucks**  
**TIFA 2002**

Carrier type	Van		Flatbed		Tank		Dump		Refuse		Pole/logging		Other*		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Interstate private	106	30.3	51	30.7	27	32.9	43	11.5	22	20.8	1	7.7	80	21.6	3	15.8	333	22.5
Interstate for-hire	58	16.6	8	4.8	6	7.3	38	10.1	9	8.5	2	15.4	38	10.3	0	0.0	159	10.7
Intrastate private	92	26.3	84	50.6	36	43.9	133	35.5	49	46.2	6	46.2	169	45.7	3	15.8	572	38.6
Intrastate for-hire	15	4.3	4	2.4	8	9.8	102	27.2	10	9.4	2	15.4	29	7.8	2	10.5	172	11.6
Government owned	3	0.9	3	1.8	0	0.0	32	8.5	9	8.5	0	0.0	3	0.8	1	5.3	51	3.4
Daily rental	37	10.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	0	0.0	38	2.6
Unknown	39	11.1	16	9.6	5	6.1	27	7.2	7	6.6	2	15.4	50	13.5	10	52.6	156	10.5
Total	350	100.0	166	100.0	82	100.0	375	100.0	106	100.0	13	100.0	370	100.0	19	100.0	1481	100.0

\* Note: The Other category includes 18 auto carriers,

**Table 5-8  
Fatal Truck Involvements by Trip Type and Cargo Body Style – Straight Trucks  
TIFA 2002**

Trip type	Van		Flatbed		Tank		Dump		Refuse		Pole/logging		Other*		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Local	174	49.7	108	65.1	57	69.5	308	82.1	85	80.2	4	30.8	238	64.3	3	15.8	977	66.0
51-100 miles	52	14.9	15	9.0	12	14.6	25	6.7	9	8.5	3	23.1	32	8.6	1	5.3	149	10.1
101-200	25	7.1	16	9.6	2	2.4	9	2.4	3	2.8	3	23.1	16	4.3	0	0.0	74	5.0
201-500	23	6.6	2	1.2	2	2.4	1	0.3	1	0.9	0	0.0	11	3.0	0	0.0	40	2.7
Over 500	16	4.6	1	0.6	0	0.0	1	0.3	1	0.9	0	0.0	15	4.1	0	0.0	34	2.3
Unk over-the-road dist	12	3.4	2	1.2	2	2.4	3	0.8	0	0.0	2	15.4	9	2.4	0	0.0	30	2.0
Unknown	48	13.7	22	13.3	7	8.5	28	7.5	7	6.6	1	7.7	49	13.2	15	78.9	177	12.0
<b>Total</b>	<b>350</b>	<b>100.0</b>	<b>166</b>	<b>100.0</b>	<b>82</b>	<b>100.0</b>	<b>375</b>	<b>100.0</b>	<b>106</b>	<b>100.0</b>	<b>13</b>	<b>100.0</b>	<b>370</b>	<b>100.0</b>	<b>19</b>	<b>100.0</b>	<b>1481</b>	<b>100.0</b>

\* Note: The Other category includes 18 auto carriers.

**Table 5-9  
Fatal Truck Involvements by Route Signing and Cargo Body Style – Straight Trucks  
TIFA 2002**

Route signing	Van		Flatbed		Tank		Dump		Refuse		Pole/logging		Other*		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Interstate	78	22.3	20	12.0	10	12.2	24	6.4	5	4.7	1	7.7	60	16.2	1	5.3	199	13.4
US highway	70	20.0	31	18.7	11	13.4	86	22.9	16	15.1	4	30.8	80	21.6	4	21.1	302	20.4
State highway	111	31.7	57	34.3	25	30.5	135	36.0	31	29.2	5	38.5	119	32.2	10	52.6	493	33.3
County road	38	10.9	30	18.1	24	29.3	75	20.0	22	20.8	2	15.4	66	17.8	0	0.0	257	17.4
Township	7	2.0	6	3.6	5	6.1	13	3.5	6	5.7	0	0.0	7	1.9	1	5.3	45	3.0
Municipality	35	10.0	14	8.4	2	2.4	35	9.3	19	17.9	1	7.7	27	7.3	3	15.8	136	9.2
Frontage road	2	0.6	2	1.2	0	0.0	0	0.0	1	0.9	0	0.0	0	0.0	0	0.0	5	0.3
Other	5	1.4	5	3.0	3	3.7	7	1.9	6	5.7	0	0.0	9	2.4	0	0.0	35	2.4
Unknown	4	1.1	1	0.6	2	2.4	0	0.0	0	0.0	0	0.0	2	0.5	0	0.0	9	0.6
<b>Total</b>	<b>350</b>	<b>100.0</b>	<b>166</b>	<b>100.0</b>	<b>82</b>	<b>100.0</b>	<b>375</b>	<b>100.0</b>	<b>106</b>	<b>100.0</b>	<b>13</b>	<b>100.0</b>	<b>370</b>	<b>100.0</b>	<b>19</b>	<b>100.0</b>	<b>1481</b>	<b>100.0</b>

\* Note: The Other category includes 18 auto carriers.

**Table 5-10  
Fatal Truck Involvements by Land Use and Cargo Body Style – Straight Trucks  
TIFA 2002**

Land use	Van		Flatbed		Tank		Dump		Refuse		Pole/logging		Other*		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Urban	143	40.9	60	36.1	16	19.5	120	32.0	58	54.7	0	0.0	132	35.7	11	57.9	540	36.5
Rural	206	58.9	105	63.3	65	79.3	255	68.0	47	44.3	13	100.0	237	64.1	8	42.1	936	63.2
Unknown	1	0.3	1	0.6	1	1.2	0	0.0	1	0.9	0	0.0	1	0.3	0	0.0	5	0.3
<b>Total</b>	<b>350</b>	<b>100.0</b>	<b>166</b>	<b>100.0</b>	<b>82</b>	<b>100.0</b>	<b>375</b>	<b>100.0</b>	<b>106</b>	<b>100.0</b>	<b>13</b>	<b>100.0</b>	<b>370</b>	<b>100.0</b>	<b>19</b>	<b>100.0</b>	<b>1481</b>	<b>100.0</b>

\* Note: The Other category includes 18 auto carriers.

**Table 5-11**  
**Fatal Truck Involvements by Light Condition and Cargo Body Style – Straight Trucks**  
**TIFA 2002**

Light condition	Van		Flatbed		Tank		Dump		Refuse		Pole/logging		Other*		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Daylight	258	73.7	136	81.9	69	84.1	333	88.8	72	67.9	10	76.9	267	72.2	13	68.4	1158	78.2
Dark	55	15.7	17	10.2	8	9.8	27	7.2	13	12.3	2	15.4	58	15.7	2	10.5	182	12.3
Dark but lighted	27	7.7	8	4.8	3	3.7	7	1.9	16	15.1	1	7.7	28	7.6	2	10.5	92	6.2
Dawn	8	2.3	3	1.8	2	2.4	4	1.1	4	3.8	0	0.0	10	2.7	2	10.5	33	2.2
Dusk	2	0.6	2	1.2	0	0.0	3	0.8	1	0.9	0	0.0	5	1.4	0	0.0	13	0.9
Unknown	0	0.0	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0	2	0.5	0	0.0	3	0.2
<b>Total</b>	<b>350</b>	<b>100.0</b>	<b>166</b>	<b>100.0</b>	<b>82</b>	<b>100.0</b>	<b>375</b>	<b>100.0</b>	<b>106</b>	<b>100.0</b>	<b>13</b>	<b>100.0</b>	<b>370</b>	<b>100.0</b>	<b>19</b>	<b>100.0</b>	<b>1481</b>	<b>100.0</b>

\* Note: The Other category includes 18 auto carriers.

## Accident description

**Table 5-12**  
**Fatal Truck Involvements by Accident Type and Driver Injury Severity – Straight Trucks**  
**TIFA 2002**

Accident type	Fatal injury (K)		Incapacitating (A)		Non-incapacitating (B)		Complaint of pain (C)		No injury (O)		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<i>Single vehicle</i>														
Ran off road	111	48.9	10	9.0	3	1.8	2	1.2	5	0.6	0	0.0	131	8.8
Hit object in road	20	8.8	0	0.0	3	1.8	0	0.0	122	15.6	7	30.4	152	10.3
<i>Same direction, same trafficway</i>														
Rearend, truck striking	14	6.2	5	4.5	7	4.2	8	4.6	28	3.6	0	0.0	62	4.2
Rearend, truck struck	7	3.1	2	1.8	9	5.5	22	12.7	91	11.6	10	43.5	141	9.5
Sideswipe, in other's lane	1	0.4	1	0.9	1	0.6	0	0.0	2	0.3	0	0.0	5	0.3
Sideswipe, in truck's lane	1	0.4	1	0.9	1	0.6	4	2.3	14	1.8	0	0.0	21	1.4
<i>Opposite direction, same trafficway</i>														
Head-on, in other's lane	3	1.3	6	5.4	4	2.4	3	1.7	12	1.5	0	0.0	28	1.9
Head-on, in truck's lane	2	0.9	25	22.5	32	19.4	25	14.5	73	9.3	0	0.0	157	10.6
Sideswipe, in other's lane	5	2.2	9	8.1	5	3.0	3	1.7	12	1.5	0	0.0	34	2.3
Sideswipe, in truck's lane	4	1.8	9	8.1	24	14.5	18	10.4	60	7.7	0	0.0	115	7.8
<i>Change trafficway, one vehicle turning</i>														
Truck turn across path	3	1.3	4	3.6	2	1.2	3	1.7	28	3.6	1	4.3	41	2.8
Other turn across path	5	2.2	6	5.4	10	6.1	25	14.5	72	9.2	0	0.0	118	8
<i>Intersecting paths, both going straight</i>														
Truck into side of other	7	3.1	14	12.6	25	15.2	22	12.7	87	11.1	0	0.0	155	10.5
Other into side of truck	6	2.6	2	1.8	7	4.2	9	5.2	25	3.2	0	0.0	49	3.3
<i>Other accident types</i>														
Truck backed into other	0	0.0	0	0.0	0	0.0	0	0.0	6	0.8	0	0.0	6	0.4
Other backed into truck	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
Untripped roll	12	5.3	1	0.9	3	1.8	0	0.0	1	0.1	0	0.0	17	1.1
Other	18	7.9	12	10.8	15	9.1	19	11.0	99	12.7	4	17.4	167	11.3
Unknown	7	3.1	4	3.6	14	8.5	10	5.8	45	5.8	1	4.3	81	5.5
<b>Total</b>	<b>227</b>	<b>100.0</b>	<b>111</b>	<b>100.0</b>	<b>165</b>	<b>100.0</b>	<b>173</b>	<b>100.0</b>	<b>782</b>	<b>100.0</b>	<b>23</b>	<b>100.0</b>	<b>1481</b>	<b>100.0</b>

**Table 5-13**  
**Fatal Truck Involvements by Manner of Collision and Cargo Body Style – Straight Trucks**  
**TIFA 2002**

Manner of collision	Van		Flatbed		Tank		Dump		Refuse		Pole/logging		Other*		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Not applicable	82	23.4	47	28.3	23	28.0	75	20.0	32	30.2	2	15.4	96	25.9	5	26.3	362	24.4
Rear-end	65	18.6	26	15.7	10	12.2	51	13.6	18	17.0	2	15.4	67	18.1	7	36.8	246	16.6
Head-on	60	17.1	28	16.9	11	13.4	66	17.6	16	15.1	3	23.1	51	13.8	2	10.5	237	16.0
Front-to-side:same dir	6	1.7	7	4.2	3	3.7	12	3.2	5	4.7	0	0.0	8	2.2	1	5.3	42	2.8
Front-to-side:opp dir	37	10.6	19	11.4	9	11.0	55	14.7	10	9.4	2	15.4	48	13.0	0	0.0	180	12.2
Front-to-side:right angle	69	19.7	32	19.3	21	25.6	94	25.1	19	17.9	4	30.8	77	20.8	4	21.1	320	21.6
Front-to-side:other	3	0.9	0	0.0	1	1.2	3	0.8	0	0.0	0	0.0	1	0.3	0	0.0	8	0.5
Sideswipe:same direction	8	2.3	1	0.6	1	1.2	3	0.8	1	0.9	0	0.0	8	2.2	0	0.0	22	1.5
Sideswipe:opp. direction	16	4.6	5	3.0	3	3.7	13	3.5	4	3.8	0	0.0	12	3.2	0	0.0	53	3.6
Rear-to-side	1	0.3	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0	1	0.3	0	0.0	3	0.2
Other	2	0.6	0	0.0	0	0.0	2	0.5	1	0.9	0	0.0	1	0.3	0	0.0	6	0.4
Unknown	1	0.3	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
<b>Total</b>	<b>350</b>	<b>100.0</b>	<b>166</b>	<b>100.0</b>	<b>82</b>	<b>100.0</b>	<b>375</b>	<b>100.0</b>	<b>106</b>	<b>100.0</b>	<b>13</b>	<b>100.0</b>	<b>370</b>	<b>100.0</b>	<b>19</b>	<b>100.0</b>	<b>1481</b>	<b>100.0</b>

\* Note: The Other category includes 18 auto carriers.

**Table 5-14**  
**Fatal Truck Involvements by Driver Injury Severity and Cargo Body Style – Straight Trucks**  
**TIFA 2002**

Driver injury severity	Van		Flatbed		Tank		Dump		Refuse		Pole/logging		Other*		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Fatal injury (K)	46	13.1	34	20.5	24	29.3	46	12.3	9	8.5	2	15.4	65	17.6	1	5.3	227	15.3
Incapacitating (A)	35	10.0	19	11.4	7	8.5	20	5.3	2	1.9	2	15.4	25	6.8	1	5.3	111	7.5
Non-incapacitating (B)	55	15.7	14	8.4	5	6.1	40	10.7	9	8.5	0	0.0	41	11.1	1	5.3	165	11.1
Complaint of pain (C)	42	12.0	24	14.5	10	12.2	45	12.0	7	6.6	0	0.0	40	10.8	5	26.3	173	11.7
No injury (O)	168	48.0	71	42.8	35	42.7	221	58.9	78	73.6	8	61.5	191	51.6	10	52.6	782	52.8
Unknown	4	1.1	4	2.4	1	1.2	3	0.8	1	0.9	1	7.7	8	2.2	1	5.3	23	1.6
<b>Total</b>	<b>350</b>	<b>100.0</b>	<b>166</b>	<b>100.0</b>	<b>82</b>	<b>100.0</b>	<b>375</b>	<b>100.0</b>	<b>106</b>	<b>100.0</b>	<b>13</b>	<b>100.0</b>	<b>370</b>	<b>100.0</b>	<b>19</b>	<b>100.0</b>	<b>1481</b>	<b>100.0</b>

\* Note: The Other category includes 18 auto carriers.

**Table 5-15**  
**Fatal Truck Involvements by Driver Injury Severity and Rollover, Fire, Ejection Status – Straight Trucks**  
**TIFA 2002**

Fire, rollover, and ejection	Fatal injury (K)		Incapacitating (A)		Non-incapacitating (B)		Complaint of pain (C)		No. injury (O)		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Rollover only	43	18.9	24	21.6	31	18.8	13	7.5	29	3.7	1	4.3	141	9.5
Fire only	8	3.5	2	1.8	7	4.2	3	1.7	8	1.0	0	0.0	28	1.9
Ejection only	29	12.8	4	3.6	1	0.6	0	0.0	0	0.0	0	0.0	34	2.3
Rollover and fire	14	6.2	3	2.7	3	1.8	0	0.0	0	0.0	0	0.0	20	1.4
Rollover & ejection	65	28.6	8	7.2	2	1.2	0	0.0	0	0.0	0	0.0	75	5.1
Fire and ejection	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
Rollover, fire & eject	2	0.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
None	62	27.3	69	62.2	121	73.3	157	90.8	745	95.3	6	26.1	1160	78.3
Unknown	3	1.3	1	0.9	0	0.0	0	0.0	0	0.0	16	69.6	20	1.4
<b>Total</b>	<b>227</b>	<b>100.0</b>	<b>111</b>	<b>100.0</b>	<b>165</b>	<b>100.0</b>	<b>173</b>	<b>100.0</b>	<b>782</b>	<b>100.0</b>	<b>23</b>	<b>100.0</b>	<b>1481</b>	<b>100.0</b>



# ***Tractors***

This section provides descriptive statistics on tractor combinations involved in a fatal traffic accident in 2002. 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 3,148 of the 4,950 trucks (63.6%) involved in a fatal accident in 2002.
- 94.4% of the power units in tractor combinations were Class 8 (over 33,000 lbs.) Gross Vehicle Weight Rating (GVWR).
- The lightest tractor configuration weighed 10,000 pounds or less, and was a bobtail tractor; the three heaviest tractor configurations were a tractor with one trailer and two “other tractor combinations,” all with a loaded weight over 170,000 pounds.
- 75.5% of tractor combinations weighed between 25,001 and 80,000 pounds.
- 28.2% of tractor combinations were empty at the time of the accident; while the most common cargo was general freight with 26.2% of tractor involvements.
- 89.5% of tractor-semitrailer configurations consisted of a three-axle tractor pulling a two-axle trailer. 65.6% of doubles (two trailers) consisted of a two-axle tractor with a one-axle first trailer and a two-axle second trailer.
- 66.8% of tractor combinations were operated by for-hire, interstate carriers; 15.2% of tractors were operated by private, interstate carriers.
- 18.8% of tractor combinations were on a local trip (within 50 miles of base) at the time of the accident; 21.9% were on a trip over 500 miles.
- 392 tractor drivers were fatally injured in a traffic accident; 49.7% of the fatalities occurred in ran-off-road crashes.



## Configuration

**Table 6-1**  
**Fatal Truck Involvements by Tractor Configuration**  
**TIFA 2002**

Configuration	No.	Pct.
<i>Tractor, no trailers</i>		
Bobtail tractor	87	2.8
Tractor carrying cargo	8	0.3
<i>Subtotal</i>	95	3.0
<i>Tractor, 1 trailer</i>		
Tractor and semitrailer	2877	91.4
Tractor + other (nonsemitrailer)	12	0.4
<i>Subtotal</i>	2889	91.8
<i>Tractor, 2 trailers</i>		
Double with A dolly	75	2.4
Double, B train	6	0.2
Double with unknown dolly	1	0.0
Tractor + semitrailer +full trailer	72	2.3
<i>Subtotal</i>	154	4.9
<i>Tractor, 3 trailers</i>		
Triple with A dollies	1	0.0
<i>Subtotal</i>	1	0.0
<i>Other tractor combinations</i>		
Tractor + jeep + semi + jeep	1	0.0
Tractor + semi + jeep	1	0.0
Tractor + jeep + semi	3	0.1
Tractor + 1 saddlemount tractor	2	0.1
Tractor + 2 saddlemount tractors	2	0.1
<i>Subtotal</i>	9	0.3
<i>Total tractors</i>	3148	100.0



**Table 6-2  
Fatal Truck Involvements by Cargo Body Style and Truck Configuration – Tractor Combinations  
TIFA 2002**

Cargo body style	Tractor, no trailers		Tractor, 1 trailer		Tractor, 2 trailers		Tractor, 3 trailers		Other tractor combinations		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Tractor/no trailers	95	100.0	0	0.0	0	0.0	0	0.0	0	0.0	95	3.0
Van	0	0.0	1157	40.0	70	45.5	1	100.0	0	0.0	1228	39.0
Open top van	0	0.0	38	1.3	2	1.3	0	0.0	0	0.0	40	1.3
Refrigerated van	0	0.0	396	13.7	2	1.3	0	0.0	0	0.0	398	12.6
Livestock carrier	0	0.0	45	1.6	0	0.0	0	0.0	0	0.0	45	1.4
Flatbed	0	0.0	365	12.6	27	17.5	0	0.0	0	0.0	392	12.5
Lowboy	0	0.0	54	1.9	0	0.0	0	0.0	5	55.6	59	1.9
Flatbed with equip.	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Flatbed with sides	0	0.0	31	1.1	3	1.9	0	0.0	0	0.0	34	1.1
Pole/logging	0	0.0	104	3.6	0	0.0	0	0.0	0	0.0	104	3.3
Tank:liquid/gaseous	0	0.0	225	7.8	5	3.2	0	0.0	0	0.0	230	7.3
Tank:dry bulk	0	0.0	54	1.9	4	2.6	0	0.0	0	0.0	58	1.8
Auto carrier	0	0.0	21	0.7	0	0.0	0	0.0	0	0.0	21	0.7
Dump	0	0.0	236	8.2	6	3.9	0	0.0	0	0.0	242	7.7
Hopper bottom	0	0.0	94	3.3	34	22.1	0	0.0	0	0.0	128	4.1
Refuse	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Other	0	0.0	40	1.4	1	0.6	0	0.0	4	44.4	45	1.4
Unknown	0	0.0	22	0.8	0	0.0	0	0.0	0	0.0	22	0.7
<b>Total</b>	<b>95</b>	<b>100.0</b>	<b>2889</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>1</b>	<b>100.0</b>	<b>9</b>	<b>100.0</b>	<b>3148</b>	<b>100.0</b>

**Table 6-3**  
**Fatal Truck Involvements by Cargo Type and Truck Configuration – Tractor Combinations**  
**TIFA 2002**

Cargo type	Tractor, no trailers		Tractor, 1 trailer		Tractor, 2 trailers		Tractor, 3 trailers		Other tractor combinations		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Empty/bobtail	87	91.6	757	26.2	45	29.2	0	0.0	0	0.0	889	28.2
General freight	0	0.0	764	26.4	61	39.6	1	100.0	0	0.0	826	26.2
Household goods	0	0.0	15	0.5	1	0.6	0	0.0	0	0.0	16	0.5
Building materials	0	0.0	52	1.8	1	0.6	0	0.0	0	0.0	53	1.7
Metal (coils, sheets)	0	0.0	101	3.5	0	0.0	0	0.0	0	0.0	101	3.2
Heavy machinery	0	0.0	58	2.0	0	0.0	0	0.0	5	55.6	63	2.0
Large objects	0	0.0	55	1.9	2	1.3	0	0.0	0	0.0	57	1.8
Motor vehicles	0	0.0	15	0.5	0	0.0	0	0.0	0	0.0	15	0.5
Piggyback/towaway	8	8.4	0	0.0	0	0.0	0	0.0	0	0.0	8	0.3
Gases in bulk	0	0.0	12	0.4	0	0.0	0	0.0	0	0.0	12	0.4
Solids in bulk	0	0.0	313	10.8	21	13.6	0	0.0	0	0.0	334	10.6
Liquids in bulk	0	0.0	134	4.6	5	3.2	0	0.0	0	0.0	139	4.4
Logs/poles/lumber	0	0.0	122	4.2	3	1.9	0	0.0	0	0.0	125	4.0
Refrigerated foods	0	0.0	279	9.7	2	1.3	0	0.0	0	0.0	281	8.9
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	53	1.8	11	7.1	0	0.0	0	0.0	64	2.0
Live animals	0	0.0	29	1.0	0	0.0	0	0.0	0	0.0	29	0.9
Other	0	0.0	7	0.2	1	0.6	0	0.0	0	0.0	8	0.3
Cargo, unk. type	0	0.0	20	0.7	0	0.0	0	0.0	0	0.0	20	0.6
Saddlemount tractor	0	0.0	0	0.0	0	0.0	0	0.0	4	44.4	4	0.1
Unknown	0	0.0	96	3.3	1	0.6	0	0.0	0	0.0	97	3.1
<b>Total</b>	<b>95</b>	<b>100.0</b>	<b>2889</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>1</b>	<b>100.0</b>	<b>9</b>	<b>100.0</b>	<b>3148</b>	<b>100.0</b>

**Table 6-4**  
**Fatal Truck Involvements by Cargo Type and Cargo Body Style – Tractor Combinations**  
**TIFA 2002**

Cargo type	Tractor/ no trailers		Van		Open top van		Refrigerated van		Livestock carrier		Flatbed		Lowboy		Flatbed with equipment		Flatbed with sides		Pole/logging	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Empty/bobtail	87	91.6	268	21.8	17	42.5	49	12.3	20	44.4	107	27.3	18	30.5	3	75.0	10	29.4	33	31.7
General freight	0	0.0	755	61.5	1	2.5	39	9.8	0	0.0	29	7.4	0	0.0	0	0.0	1	2.9	0	0.0
Household goods	0	0.0	16	1.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Building materials	0	0.0	17	1.4	0	0.0	1	0.3	0	0.0	35	8.9	0	0.0	0	0.0	0	0.0	0	0.0
Metal (coils, sheets)	0	0.0	15	1.2	0	0.0	0	0.0	0	0.0	76	19.4	1	1.7	0	0.0	8	23.5	1	1.0
Heavy machinery	0	0.0	3	0.2	1	2.5	0	0.0	0	0.0	21	5.4	34	57.6	0	0.0	1	2.9	0	0.0
Large objects	0	0.0	10	0.8	0	0.0	3	0.8	0	0.0	35	8.9	4	6.8	0	0.0	4	11.8	0	0.0
Motor vehicles	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.5	2	3.4	0	0.0	0	0.0	0	0.0
Piggyback/towaway	8	8.4	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	52	4.2	14	35.0	14	3.5	0	0.0	11	2.8	0	0.0	1	25.0	2	5.9	0	0.0
Liquids in bulk	0	0.0	1	0.1	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	7	0.6	0	0.0	0	0.0	0	0.0	44	11.2	0	0.0	0	0.0	3	8.8	70	67.3
Refrigerated foods	0	0.0	2	0.2	0	0.0	278	69.8	1	2.2	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	6	15.0	6	1.5	0	0.0	15	3.8	0	0.0	0	0.0	3	8.8	0	0.0
Live animals	0	0.0	0	0.0	0	0.0	1	0.3	24	53.3	3	0.8	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	3	0.8	0	0.0	0	0.0	2	5.9	0	0.0
Cargo, unk. type	0	0.0	13	1.1	0	0.0	2	0.5	0	0.0	2	0.5	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	57	4.6	1	2.5	5	1.3	0	0.0	9	2.3	0	0.0	0	0.0	0	0.0	0	0.0
Total	95	100.0	1228	100.0	40	100.0	398	100.0	45	100.0	392	100.0	59	100.0	4	100.0	34	100.0	104	100.0

**Table 6-4 (continued)**

Cargo type	Tank liquid/gas		Tank dry bulk		Auto carrier		Dump		Hopper bottom		Refuse		Other		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Empty/bobtail	77	33.5	21	36.2	10	47.6	100	41.3	50	39.1	1	33.3	18	40.0	0	0.0	889	28.2
General freight	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.2	0	0.0	826	26.2
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	16	0.5
Building materials	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	53	1.7
Metal (coils, sheets)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	101	3.2
Heavy machinery	1	0.4	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0	1	2.2	0	0.0	63	2.0
Large objects	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.2	0	0.0	57	1.8
Motor vehicles	0	0.0	0	0.0	11	52.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	15	0.5
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	8	0.3
Gases in bulk	12	5.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	12	0.4
Solids in bulk	0	0.0	37	63.8	0	0.0	131	54.1	62	48.4	2	66.7	7	15.6	1	4.5	334	10.6
Liquids in bulk	138	60.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	139	4.4
Logs/poles/lumber	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.2	0	0.0	125	4.0
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	281	8.9
Mobile home	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	15.6	0	0.0	7	0.2
Farm products	0	0.0	0	0.0	0	0.0	6	2.5	16	12.5	0	0.0	2	4.4	0	0.0	64	2.0
Live animals	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.2	0	0.0	29	0.9
Other	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.2	0	0.0	8	0.3
Cargo, unk. type	0	0.0	0	0.0	0	0.0	2	0.8	0	0.0	0	0.0	0	0.0	1	4.5	20	0.6
Saddlemount tractor	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	8.9	0	0.0	4	0.1
Unknown	2	0.9	0	0.0	0	0.0	2	0.8	0	0.0	0	0.0	1	2.2	20	90.9	97	3.1
Total	230	100.0	58	100.0	21	100.0	242	100.0	128	100.0	3	100.0	45	100.0	22	100.0	3148	100.0

**Table 6-5**  
**Fatal Truck Involvements by Cargo Type and Cargo Body Style Groups – Tractor Combinations**  
**TIFA 2002**

Cargo type	Van		Flatbed		Tank		Dump		Livestock		Pole/logging		Other*		None/unk		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Empty/bobtail	334	20.0	138	28.2	98	34.0	150	40.5	20	44.4	33	31.7	29	42.0	87	74.4	889	28.2
General freight	795	47.7	30	6.1	0	0.0	0	0.0	0	0.0	0	0.0	1	1.4	0	0.0	826	26.2
Household goods	16	1.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	16	0.5
Building materials	18	1.1	35	7.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	53	1.7
Metal (coils, sheets)	15	0.9	85	17.4	0	0.0	0	0.0	0	0.0	1	1.0	0	0.0	0	0.0	101	3.2
Heavy machinery	4	0.2	56	11.5	1	0.3	1	0.3	0	0.0	0	0.0	1	1.4	0	0.0	63	2.0
Large objects	13	0.8	43	8.8	0	0.0	0	0.0	0	0.0	0	0.0	1	1.4	0	0.0	57	1.8
Motor vehicles	0	0.0	4	0.8	0	0.0	0	0.0	0	0.0	0	0.0	11	15.9	0	0.0	15	0.5
Piggyback/towaway	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8	6.8	8	0.3
Gases in bulk	0	0.0	0	0.0	12	4.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	12	0.4
Solids in bulk	80	4.8	14	2.9	37	12.8	193	52.2	0	0.0	0	0.0	9	13.0	1	0.9	334	10.6
Liquids in bulk	1	0.1	0	0.0	138	47.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	139	4.4
Logs/poles/lumber	7	0.4	47	9.6	0	0.0	0	0.0	0	0.0	70	67.3	1	1.4	0	0.0	125	4.0
Refrigerated foods	280	16.8	0	0.0	0	0.0	0	0.0	1	2.2	0	0.0	0	0.0	0	0.0	281	8.9
Mobile home	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	10.1	0	0.0	7	0.2
Farm products	22	1.3	18	3.7	0	0.0	22	5.9	0	0.0	0	0.0	2	2.9	0	0.0	64	2.0
Live animals	1	0.1	3	0.6	0	0.0	0	0.0	24	53.3	0	0.0	1	1.4	0	0.0	29	0.9
Other	2	0.1	5	1.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.4	0	0.0	8	0.3
Cargo, unk. type	15	0.9	2	0.4	0	0.0	2	0.5	0	0.0	0	0.0	0	0.0	1	0.9	20	0.6
Saddlemount tractor	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	5.8	0	0.0	4	0.1
Unknown	63	3.8	9	1.8	2	0.7	2	0.5	0	0.0	0	0.0	1	1.4	20	17.1	97	3.1
<b>Total</b>	<b>1666</b>	<b>100.0</b>	<b>489</b>	<b>100.0</b>	<b>288</b>	<b>100.0</b>	<b>370</b>	<b>100.0</b>	<b>45</b>	<b>100.0</b>	<b>104</b>	<b>100.0</b>	<b>69</b>	<b>100.0</b>	<b>117</b>	<b>100.0</b>	<b>3148</b>	<b>100.0</b>

\* Note: The Other category includes 21 auto carriers and three refuse trucks.

**Table 6-6**  
**Fatal Truck Involvements by Gross Vehicle Weight Rating and Truck Configuration – Tractor Combinations**  
**TIFA 2002**

Gross vehicle weight rating (lbs)	Tractor, no trailers		Tractor, 1 trailer		Tractor, 2 trailers		Tractor, 3 trailers		Other tractor combs		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
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	8	8.4	87	3.0	54	35.1	1	100.0	1	11.1	151	4.8
Class 8: 33,001+	87	91.6	2784	96.4	92	59.7	0	0.0	8	88.9	2971	94.4
Unknown	0	0.0	16	0.6	8	5.2	0	0.0	0	0.0	24	0.8
<b>Total</b>	<b>95</b>	<b>100.0</b>	<b>2889</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>1</b>	<b>100.0</b>	<b>9</b>	<b>100.0</b>	<b>3148</b>	<b>100.0</b>

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**  
**TIFA 2002**

Gross vehicle weight rating (lbs)	Van		Flatbed		Tank		Dump		Livestock		Pole/logging		Other*		None/unk		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Class 6: 19,501-26,000	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.4	0	0.0	2	0.1
Class 7: 26,001-33,000	95	5.7	26	5.3	1	0.3	15	4.1	0	0.0	1	1.0	5	7.2	8	6.8	151	4.8
Class 8: 33,001+	1562	93.8	458	93.7	285	99.0	352	95.1	45	100.0	103	99.0	63	91.3	103	88.0	2971	94.4
Unknown	8	0.5	5	1.0	2	0.7	3	0.8	0	0.0	0	0.0	0	0.0	6	5.1	24	0.8
<b>Total</b>	<b>1666</b>	<b>100.0</b>	<b>489</b>	<b>100.0</b>	<b>288</b>	<b>100.0</b>	<b>370</b>	<b>100.0</b>	<b>45</b>	<b>100.0</b>	<b>104</b>	<b>100.0</b>	<b>69</b>	<b>100.0</b>	<b>117</b>	<b>100.0</b>	<b>3148</b>	<b>100.0</b>

\* Note: The Other category includes 21 auto carriers and three refuse trucks. Gross Vehicle Weight Rating (GVWR) pertains to the power unit.

**Table 6-8**  
**Fatal Truck Involvements by Gross Combination Weight and Truck Configuration – Tractor Combinations**  
**TIFA 2002**

Gross combination weight (lbs)	Tractor, no trailers		Tractor, 1 trailer		Tractor, 2 trailers		Tractor, 3 trailers		Other tractor combs		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
5,001-10,000	1	1.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
10,001-15,000	15	15.8	0	0.0	0	0.0	0	0.0	0	0.0	15	0.5
15,001-20,000	66	69.5	8	0.3	0	0.0	0	0.0	0	0.0	74	2.4
20,001-25,000	5	5.3	46	1.6	4	2.6	0	0.0	0	0.0	55	1.7
25,001-30,000	3	3.2	342	11.8	17	11.0	0	0.0	0	0.0	362	11.5
30,001-35,000	0	0.0	362	12.5	13	8.4	0	0.0	0	0.0	375	11.9
35,001-40,000	0	0.0	141	4.9	8	5.2	0	0.0	0	0.0	149	4.7
40,001-45,000	0	0.0	88	3.0	5	3.2	0	0.0	0	0.0	93	3.0
45,001-50,000	0	0.0	87	3.0	8	5.2	0	0.0	0	0.0	95	3.0
50,001-55,000	0	0.0	89	3.1	6	3.9	0	0.0	1	11.1	96	3.0
55,001-60,000	0	0.0	78	2.7	10	6.5	0	0.0	1	11.1	89	2.8
60,001-65,000	0	0.0	109	3.8	7	4.5	0	0.0	0	0.0	116	3.7
65,001-70,000	0	0.0	172	6.0	6	3.9	0	0.0	0	0.0	178	5.7
70,001-75,000	0	0.0	300	10.4	8	5.2	0	0.0	0	0.0	308	9.8
75,001-80,000	0	0.0	499	17.3	15	9.7	1	100.0	0	0.0	515	16.4
80,001-85,000	0	0.0	42	1.5	1	0.6	0	0.0	0	0.0	43	1.4
85,001-90,000	0	0.0	18	0.6	2	1.3	0	0.0	0	0.0	20	0.6
90,001-95,000	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	6	0.2
95,001-100,000	0	0.0	10	0.3	0	0.0	0	0.0	0	0.0	10	0.3
100,001-110,000	0	0.0	7	0.2	8	5.2	0	0.0	0	0.0	15	0.5
110,001-120,000	0	0.0	6	0.2	2	1.3	0	0.0	0	0.0	8	0.3
120,001-130,000	0	0.0	0	0.0	1	0.6	0	0.0	1	11.1	2	0.1
130,001-140,000	0	0.0	1	0.0	1	0.6	0	0.0	0	0.0	2	0.1
140,001-150,000	0	0.0	2	0.1	0	0.0	0	0.0	1	11.1	3	0.1
150,001-160,000	0	0.0	0	0.0	2	1.3	0	0.0	0	0.0	2	0.1
160,001-170,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170,001 and over *	0	0.0	1	0.0	0	0.0	0	0.0	2	22.2	3	0.1
Unknown	5	5.3	475	16.4	30	19.5	0	0.0	3	33.3	513	16.3
<b>Total</b>	<b>95</b>	<b>100.0</b>	<b>2889</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>1</b>	<b>100.0</b>	<b>9</b>	<b>100.0</b>	<b>3148</b>	<b>100.0</b>

\* This category includes one "other tractor combination" weighing over 240,000 lbs.

**Table 6-9  
Fatal Truck Involvements by Gross Combination Weight and Cargo Body Style – TRACTOR-SEMITRAILERS  
TIFA 2002**

Gross combination weight (lbs)	Van		Flatbed		Tank		Dump		Livestock		Pole/logging		Other		None/unk		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
15,001-20,000	4	0.3	1	0.2	0	0.0	0	0.0	0	0.0	1	1.0	1	1.8	0	0.0	7	0.2
20,001-25,000	21	1.3	6	1.3	6	2.2	6	1.8	0	0.0	2	1.9	4	7.1	0	0.0	45	1.6
25,001-30,000	112	7.0	75	16.7	59	21.1	60	18.2	6	13.3	26	25.0	4	7.1	0	0.0	342	11.9
30,001-35,000	218	13.7	45	10.0	26	9.3	44	13.3	13	28.9	2	1.9	12	21.4	0	0.0	360	12.5
35,001-40,000	96	6.0	25	5.6	4	1.4	11	3.3	0	0.0	1	1.0	3	5.4	0	0.0	140	4.9
40,001-45,000	76	4.8	4	0.9	3	1.1	0	0.0	0	0.0	1	1.0	3	5.4	0	0.0	87	3.0
45,001-50,000	71	4.5	10	2.2	3	1.1	2	0.6	0	0.0	0	0.0	1	1.8	0	0.0	87	3.0
50,001-55,000	67	4.2	12	2.7	1	0.4	4	1.2	1	2.2	0	0.0	2	3.6	0	0.0	87	3.0
55,001-60,000	54	3.4	14	3.1	3	1.1	1	0.3	1	2.2	2	1.9	2	3.6	1	4.5	78	2.7
60,001-65,000	83	5.2	14	3.1	4	1.4	5	1.5	0	0.0	0	0.0	2	3.6	1	4.5	109	3.8
65,001-70,000	108	6.8	29	6.4	10	3.6	14	4.2	6	13.3	4	3.8	0	0.0	0	0.0	171	5.9
70,001-75,000	185	11.6	57	12.7	24	8.6	18	5.5	5	11.1	7	6.7	4	7.1	0	0.0	300	10.4
75,001-80,000	208	13.1	73	16.2	89	31.9	90	27.3	5	11.1	25	24.0	9	16.1	0	0.0	499	17.3
80,001-85,000	6	0.4	2	0.4	12	4.3	13	3.9	3	6.7	5	4.8	1	1.8	0	0.0	42	1.5
85,001-90,000	2	0.1	2	0.4	3	1.1	7	2.1	1	2.2	3	2.9	0	0.0	0	0.0	18	0.6
90,001-95,000	0	0.0	2	0.4	2	0.7	2	0.6	0	0.0	0	0.0	0	0.0	0	0.0	6	0.2
95,001-100,000	1	0.1	3	0.7	0	0.0	3	0.9	0	0.0	2	1.9	1	1.8	0	0.0	10	0.3
100,001-110,000	0	0.0	1	0.2	2	0.7	3	0.9	0	0.0	1	1.0	0	0.0	0	0.0	7	0.2
110,001-120,000	1	0.1	2	0.4	0	0.0	3	0.9	0	0.0	0	0.0	0	0.0	0	0.0	6	0.2
120,001-130,000	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
130,001-140,000	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
140,001-150,000	0	0.0	0	0.0	0	0.0	2	0.6	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
150,000 and over	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Unknown	278	17.5	72	16.0	28	10.0	41	12.4	4	8.9	22	21.2	7	12.5	20	90.9	472	16.4
<b>Total</b>	<b>1591</b>	<b>100.0</b>	<b>450</b>	<b>100.0</b>	<b>279</b>	<b>100.0</b>	<b>330</b>	<b>100.0</b>	<b>45</b>	<b>100.0</b>	<b>104</b>	<b>100.0</b>	<b>56</b>	<b>100.0</b>	<b>22</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>

**Table 6-10**  
**Fatal Truck Involvements by Gross Combination Weight and Cargo Body Style – DOUBLES**  
**TIFA 2002**

Gross combination weight (lbs)	Van		Flatbed		Tank		Dump		Other		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
20,001-25,000	0	0.0	1	3.3	0	0.0	2	5.0	1	100.0	4	2.6
25,001-30,000	2	2.7	8	26.7	1	11.1	6	15.0	0	0.0	17	11.0
30,001-35,000	6	8.1	2	6.7	0	0.0	5	12.5	0	0.0	13	8.4
35,001-40,000	2	2.7	2	6.7	0	0.0	4	10.0	0	0.0	8	5.2
40,001-45,000	4	5.4	0	0.0	0	0.0	1	2.5	0	0.0	5	3.2
45,001-50,000	6	8.1	0	0.0	0	0.0	2	5.0	0	0.0	8	5.2
50,001-55,000	4	5.4	1	3.3	1	11.1	0	0.0	0	0.0	6	3.9
55,001-60,000	8	10.8	1	3.3	0	0.0	1	2.5	0	0.0	10	6.5
60,001-65,000	7	9.5	0	0.0	0	0.0	0	0.0	0	0.0	7	4.5
65,001-70,000	4	5.4	2	6.7	0	0.0	0	0.0	0	0.0	6	3.9
70,001-75,000	7	9.5	1	3.3	0	0.0	0	0.0	0	0.0	8	5.2
75,001-80,000	3	4.1	4	13.3	0	0.0	8	20.0	0	0.0	15	9.7
80,001-85,000	1	1.4	0	0.0	0	0.0	0	0.0	0	0.0	1	0.6
85,001-90,000	1	1.4	1	3.3	0	0.0	0	0.0	0	0.0	2	1.3
90,001-95,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
95,001-100,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100,001-110,000	0	0.0	2	6.7	3	33.3	3	7.5	0	0.0	8	5.2
110,001-120,000	0	0.0	0	0.0	1	11.1	1	2.5	0	0.0	2	1.3
120,001-130,000	0	0.0	0	0.0	0	0.0	1	2.5	0	0.0	1	0.6
130,001-140,000	0	0.0	0	0.0	0	0.0	1	2.5	0	0.0	1	0.6
140,001-150,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150,001-160,000	0	0.0	0	0.0	1	11.1	1	2.5	0	0.0	2	1.3
Unknown	19	25.7	5	16.7	2	22.2	4	10.0	0	0.0	30	19.5
<b>Total</b>	<b>74</b>	<b>100.0</b>	<b>30</b>	<b>100.0</b>	<b>9</b>	<b>100.0</b>	<b>40</b>	<b>100.0</b>	<b>1</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>

**Table 6-11**  
**Fatal Truck Involvements by Empty Combination Weight and Truck Configuration – Tractor Combinations**  
**TIFA 2002**

Empty combination wt. (lbs)	Tractor, no trailers		Tractor, 1 trailer		Tractor, 2 trailers		Tractor, 3 trailers		Other tractor combs		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
5,001-10,000	1	1.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
10,001-15,000	15	15.8	2	0.1	0	0.0	0	0.0	1	11.1	18	0.6
15,001-20,000	74	77.9	21	0.7	1	0.6	0	0.0	1	11.1	97	3.1
20,001-25,000	3	3.2	124	4.3	7	4.5	0	0.0	1	11.1	135	4.3
25,001-30,000	0	0.0	1025	35.5	46	29.9	0	0.0	0	0.0	1071	34.0
30,001-35,000	0	0.0	1354	46.9	56	36.4	0	0.0	0	0.0	1410	44.8
35,001-40,000	0	0.0	194	6.7	27	17.5	0	0.0	0	0.0	221	7.0
40,001-45,000	0	0.0	15	0.5	6	3.9	1	100.0	0	0.0	22	0.7
45,001-50,000	0	0.0	11	0.4	5	3.2	0	0.0	0	0.0	16	0.5
50,001-55,000	0	0.0	5	0.2	3	1.9	0	0.0	2	22.2	10	0.3
55,001-60,000	0	0.0	2	0.1	1	0.6	0	0.0	0	0.0	3	0.1
60,001-65,000	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
65,001-70,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70,001-75,000	0	0.0	0	0.0	0	0.0	0	0.0	1	11.1	1	0.0
75,001-80,000	0	0.0	1	0.0	0	0.0	0	0.0	1	11.1	2	0.1
80,001-85,000	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
85,001-90,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90,001-95,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
95,001-100,000	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Unknown	2	2.1	132	4.6	2	1.3	0	0.0	2	22.2	138	4.4
<b>Total</b>	<b>95</b>	<b>100.0</b>	<b>2889</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>1</b>	<b>100.0</b>	<b>9</b>	<b>100.0</b>	<b>3148</b>	<b>100.0</b>

**Table 6-12**  
**Fatal Truck Involvements by Empty Combination Weight and Cargo Body Style – TRACTOR-SEMITRAILERS**  
**TIFA 2002**

Empty combination wt. (lbs)	Van		Flatbed		Tank		Dump		Livestock		Pole/logging		Other		None/unk		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
15,001-20,000	12	0.8	1	0.2	0	0.0	2	0.6	0	0.0	1	1.0	1	1.8	0	0.0	17	0.6
20,001-25,000	47	3.0	21	4.7	16	5.7	17	5.2	0	0.0	8	7.7	8	14.3	1	4.5	118	4.1
25,001-30,000	376	23.6	221	49.1	166	59.5	160	48.5	16	35.6	75	72.1	10	17.9	1	4.5	1025	35.6
30,001-35,000	978	61.5	149	33.1	60	21.5	112	33.9	28	62.2	8	7.7	19	33.9	0	0.0	1354	47.1
35,001-40,000	126	7.9	25	5.6	12	4.3	21	6.4	0	0.0	2	1.9	8	14.3	0	0.0	194	6.7
40,001-45,000	1	0.1	4	0.9	5	1.8	2	0.6	0	0.0	0	0.0	3	5.4	0	0.0	15	0.5
45,001-50,000	0	0.0	4	0.9	5	1.8	2	0.6	0	0.0	0	0.0	0	0.0	0	0.0	11	0.4
50,001-55,000	0	0.0	2	0.4	0	0.0	2	0.6	0	0.0	0	0.0	1	1.8	0	0.0	5	0.2
55,001-60,000	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.8	0	0.0	2	0.1
60,001-65,000	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
65,001-70,000	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
70,001-75,000	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
75,001 and over	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	2	3.6	0	0.0	3	0.1
Unknown	50	3.1	21	4.7	15	5.4	12	3.6	1	2.2	10	9.6	3	5.4	20	90.9	132	4.6
<b>Total</b>	<b>1591</b>	<b>100.0</b>	<b>450</b>	<b>100.0</b>	<b>279</b>	<b>100.0</b>	<b>330</b>	<b>100.0</b>	<b>45</b>	<b>100.0</b>	<b>104</b>	<b>100.0</b>	<b>56</b>	<b>100.0</b>	<b>22</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>



**Table 6-13**  
**Fatal Truck Involvements by Empty Combination Weight and Cargo Body Style – DOUBLES**  
**TIFA 2002**

Empty combination wt. (lbs)	Van		Flatbed		Tank		Dump		Other		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
15,001-20,000	0	0.0	1	3.3	0	0.0	0	0.0	0	0.0	1	0.6
20,001-25,000	1	1.4	2	6.7	0	0.0	3	7.5	1	100.0	7	4.5
25,001-30,000	15	20.3	17	56.7	2	22.2	12	30.0	0	0.0	46	29.9
30,001-35,000	41	55.4	3	10.0	3	33.3	9	22.5	0	0.0	56	36.4
35,001-40,000	15	20.3	4	13.3	1	11.1	7	17.5	0	0.0	27	17.5
40,001-45,000	1	1.4	1	3.3	2	22.2	2	5.0	0	0.0	6	3.9
45,001-50,000	0	0.0	1	3.3	0	0.0	4	10.0	0	0.0	5	3.2
50,001-55,000	0	0.0	0	0.0	1	11.1	2	5.0	0	0.0	3	1.9
55,001-60,000	1	1.4	0	0.0	0	0.0	0	0.0	0	0.0	1	0.6
Unknown	0	0.0	1	3.3	0	0.0	1	2.5	0	0.0	2	1.3
<b>Total</b>	<b>74</b>	<b>100.0</b>	<b>30</b>	<b>100.0</b>	<b>9</b>	<b>100.0</b>	<b>40</b>	<b>100.0</b>	<b>1</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>

**Table 6-14A**  
**Fatal Truck Involvements by Axle Combinations – Tractors, No Trailers**  
**TIFA 2002**

Power unit axles	No.	Pct.
2	10	10.5
3	81	85.3
4	2	2.1
5	1	1.1
Unknown	1	1.1
<b>Total</b>	<b>95</b>	<b>100.0</b>

Note: Axle counts include power unit axles plus lift axles not in use. Cases with unknown lift axles were counted as having 0 lift axles.

**Table 6-14B**  
**Fatal Truck Involvements by Axle Combinations – TRACTOR-SEMITRAILERS, TIFA 2002**

Power unit axles	1st trailer axles	No.	Pct.
2	1	36	1.3
2	2	88	3.1
2	3	3	0.1
3	1	12	0.4
3	2	2575	89.5
3	3	69	2.4
3	4	15	0.5
3	5	3	0.1
3	6	5	0.2
3	7	1	0.0
3	8	4	0.1
4	1	1	0.0
4	2	6	0.2
4	3	6	0.2
4	4	4	0.1
5	2	5	0.2
Unknown		44	1.5
Total		2877	100.0

Note: Axle counts include power unit axles plus lift axles not in use. Cases with unknown lift axles were counted as having 0 lift axles.

**Table 6-14C**  
**Fatal Truck Involvements by Axle Combinations – DOUBLES, TIFA 2002**

Power unit axles	1st trailer axles	2nd trailer axles	No.	Pct.
2	1	2	101	65.6
2	2	2	2	1.3
3	1	2	20	13.0
3	2	2	11	7.1
3	2	3	3	1.9
3	2	4	2	1.3
3	3	2	1	0.6
3	3	4	2	1.3
3	3	5	2	1.3
3	4	2	1	0.6
3	4	3	1	0.6
3	4	4	1	0.6
3	5	2	2	1.3
3	5	3	1	0.6
3	6	2	2	1.3
4	2	2	1	0.6
Unknown			1	0.6
Total			154	100.0

Note: Axle counts include power unit axles plus lift axles not in use. Cases with unknown lift axles were counted as having 0 lift axles.

## Vehicle use

**Table 6-15**  
**Fatal Truck Involvements by Carrier Type and Truck Configuration – Tractor Combinations**  
**TIFA 2002**

Carrier type	Tractor, no trailers		Tractor, 1 trailer		Tractor, 2 trailers		Tractor, 3 trailers		Other tractor combs		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Interstate private	17	17.9	442	15.3	17	11.0	0	0.0	1	11.1	477	15.2
Interstate for-hire	53	55.8	1955	67.7	92	59.7	1	100.0	3	33.3	2104	66.8
Intrastate private	5	5.3	162	5.6	14	9.1	0	0.0	2	22.2	183	5.8
Intrastate for-hire	8	8.4	193	6.7	25	16.2	0	0.0	1	11.1	227	7.2
Government owned	0	0.0	11	0.4	0	0.0	0	0.0	0	0.0	11	0.3
Daily rental	1	1.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Unknown	11	11.6	126	4.4	6	3.9	0	0.0	2	22.2	145	4.6
<b>Total</b>	<b>95</b>	<b>100.0</b>	<b>2889</b>	<b>100.0</b>	<b>154</b>	<b>100.0</b>	<b>1</b>	<b>100.0</b>	<b>9</b>	<b>100.0</b>	<b>3148</b>	<b>100.0</b>

**Table 6-16**  
**Fatal Truck Involvements by Carrier Type and Cargo Body Style – Tractor Combinations**  
**TIFA 2002**

Carrier type	Van		Flatbed		Tank		Dump		Livestock		Pole/logging		Other*		None/unk		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Interstate private	218	13.1	77	15.7	65	22.6	51	13.8	8	17.8	21	20.2	16	23.2	21	17.9	477	15.2
Interstate for-hire	1311	78.7	322	65.8	168	58.3	158	42.7	29	64.4	32	30.8	28	40.6	56	47.9	2104	66.8
Intrastate private	37	2.2	33	6.7	28	9.7	51	13.8	2	4.4	14	13.5	11	15.9	7	6.0	183	5.8
Intrastate for-hire	43	2.6	31	6.3	21	7.3	86	23.2	1	2.2	26	25.0	7	10.1	12	10.3	227	7.2
Government owned	7	0.4	3	0.6	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	11	0.3
Daily rental	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.9	1	0.0
Unknown	50	3.0	23	4.7	6	2.1	23	6.2	5	11.1	11	10.6	7	10.1	20	17.1	145	4.6
<b>Total</b>	<b>1666</b>	<b>100.0</b>	<b>489</b>	<b>100.0</b>	<b>288</b>	<b>100.0</b>	<b>370</b>	<b>100.0</b>	<b>45</b>	<b>100.0</b>	<b>104</b>	<b>100.0</b>	<b>69</b>	<b>100.0</b>	<b>117</b>	<b>100.0</b>	<b>3148</b>	<b>100.0</b>

\* Note: The Other category includes 21 auto carriers and three refuse trucks.

**Table 6-17**  
**Fatal Truck Involvements by Trip Type and Cargo Body Style – Tractor Combinations**  
**TIFA 2002**

Trip type	Van		Flatbed		Tank		Dump		Livestock		Pole/logging		Other*		None/unk		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Local	150	9.0	103	21.1	84	29.2	149	40.3	2	4.4	45	43.3	21	30.4	37	31.6	591	18.8
51-100 miles	136	8.2	67	13.7	62	21.5	78	21.1	8	17.8	30	28.8	7	10.1	13	11.1	401	12.7
101-200	193	11.6	62	12.7	51	17.7	48	13.0	9	20.0	9	8.7	9	13.0	9	7.7	390	12.4
201-500	337	20.2	78	16.0	41	14.2	32	8.6	9	20.0	2	1.9	9	13.0	6	5.1	514	16.3
Over 500	542	32.5	95	19.4	19	6.6	7	1.9	10	22.2	0	0.0	10	14.5	5	4.3	688	21.9
Unk over-the-road dist	91	5.5	20	4.1	5	1.7	12	3.2	2	4.4	8	7.7	3	4.3	3	2.6	144	4.6
Unknown	217	13.0	64	13.1	26	9.0	44	11.9	5	11.1	10	9.6	10	14.5	44	37.6	420	13.3
<b>Total</b>	<b>1666</b>	<b>100.0</b>	<b>489</b>	<b>100.0</b>	<b>288</b>	<b>100.0</b>	<b>370</b>	<b>100.0</b>	<b>45</b>	<b>100.0</b>	<b>104</b>	<b>100.0</b>	<b>69</b>	<b>100.0</b>	<b>117</b>	<b>100.0</b>	<b>3148</b>	<b>100.0</b>

\* Note: The Other category includes 21 auto carriers and three refuse trucks.

**Table 6-18**  
**Fatal Truck Involvements by Route Signing and Cargo Body Style – Tractor Combinations**  
**TIFA 2002**

Route signing	Van		Flatbed		Tank		Dump		Livestock		Pole/logging		Other*		None/unk		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Interstate	747	44.8	123	25.2	63	21.9	47	12.7	8	17.8	2	1.9	22	31.9	20	17.1	1032	32.8
US highway	407	24.4	138	28.2	78	27.1	111	30.0	20	44.4	39	37.5	18	26.1	34	29.1	845	26.8
State highway	357	21.4	168	34.4	104	36.1	127	34.3	14	31.1	43	41.3	23	33.3	34	29.1	870	27.6
County road	48	2.9	25	5.1	21	7.3	44	11.9	2	4.4	16	15.4	3	4.3	9	7.7	168	5.3
Township	10	0.6	3	0.6	1	0.3	4	1.1	0	0.0	2	1.9	0	0.0	5	4.3	25	0.8
Municipality	62	3.7	19	3.9	12	4.2	18	4.9	0	0.0	1	1.0	0	0.0	12	10.3	124	3.9
Frontage road	10	0.6	3	0.6	2	0.7	2	0.5	0	0.0	0	0.0	1	1.4	1	0.9	19	0.6
Other	20	1.2	8	1.6	7	2.4	15	4.1	1	2.2	1	1.0	2	2.9	1	0.9	55	1.7
Unknown	5	0.3	2	0.4	0	0.0	2	0.5	0	0.0	0	0.0	0	0.0	1	0.9	10	0.3
<b>Total</b>	<b>1666</b>	<b>100.0</b>	<b>489</b>	<b>100.0</b>	<b>288</b>	<b>100.0</b>	<b>370</b>	<b>100.0</b>	<b>45</b>	<b>100.0</b>	<b>104</b>	<b>100.0</b>	<b>69</b>	<b>100.0</b>	<b>117</b>	<b>100.0</b>	<b>3148</b>	<b>100.0</b>

\* Note: The Other category includes 21 auto carriers and three refuse trucks.

**Table 6-19**  
**Fatal Truck Involvements by Land Use and Cargo Body Style – Tractor Combinations**  
**TIFA 2002**

Land use	Van		Flatbed		Tank		Dump		Livestock		Pole/logging		Other*		None/unk		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Urban	553	33.2	121	24.7	69	24.0	98	26.5	4	8.9	8	7.7	18	26.1	43	36.8	914	29.0
Rural	1109	66.6	366	74.8	218	75.7	270	73.0	41	91.1	96	92.3	51	73.9	73	62.4	2224	70.6
Unknown	4	0.2	2	0.4	1	0.3	2	0.5	0	0.0	0	0.0	0	0.0	1	0.9	10	0.3
<b>Total</b>	<b>1666</b>	<b>100.0</b>	<b>489</b>	<b>100.0</b>	<b>288</b>	<b>100.0</b>	<b>370</b>	<b>100.0</b>	<b>45</b>	<b>100.0</b>	<b>104</b>	<b>100.0</b>	<b>69</b>	<b>100.0</b>	<b>117</b>	<b>100.0</b>	<b>3148</b>	<b>100.0</b>

\* Note: The Other category includes 21 auto carriers and three refuse trucks.

**Table 6-20**  
**Fatal Truck Involvements by Light Condition and Cargo Body Style – Tractor Combinations**  
**TIFA 2002**

Light condition	Van		Flatbed		Tank		Dump		Livestock		Pole/logging		Other*		None/unk		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Daylight	868	52.1	340	69.5	178	61.8	276	74.6	29	64.4	81	77.9	41	59.4	71	60.7	1884	59.8
Dark	554	33.3	95	19.4	75	26.0	62	16.8	13	28.9	18	17.3	17	24.6	25	21.4	859	27.3
Dark but lighted	182	10.9	31	6.3	21	7.3	14	3.8	3	6.7	1	1.0	5	7.2	15	12.8	272	8.6
Dawn	43	2.6	12	2.5	8	2.8	15	4.1	0	0.0	3	2.9	5	7.2	5	4.3	91	2.9
Dusk	15	0.9	10	2.0	6	2.1	2	0.5	0	0.0	1	1.0	1	1.4	1	0.9	36	1.1
Unknown	4	0.2	1	0.2	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	6	0.2
<b>Total</b>	<b>1666</b>	<b>100.0</b>	<b>489</b>	<b>100.0</b>	<b>288</b>	<b>100.0</b>	<b>370</b>	<b>100.0</b>	<b>45</b>	<b>100.0</b>	<b>104</b>	<b>100.0</b>	<b>69</b>	<b>100.0</b>	<b>117</b>	<b>100.0</b>	<b>3148</b>	<b>100.0</b>

\* Note: The Other category includes 21 auto carriers and three refuse trucks.

## Accident description

**Table 6-21**  
**Fatal Truck Involvements by Manner of Collision and Cargo Body Style – Tractor Combinations**  
**TIFA 2002**

Manner of collision	Van		Flatbed		Tank		Dump		Livestock		Pole/logging		Other*		None/unk		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Not applicable	346	20.8	85	17.4	78	27.1	50	13.5	6	13.3	19	18.3	12	17.4	23	19.7	619	19.7
Rear-end	385	23.1	104	21.3	49	17.0	52	14.1	4	8.9	14	13.5	16	23.2	18	15.4	642	20.4
Head-on	221	13.3	81	16.6	49	17.0	68	18.4	11	24.4	14	13.5	13	18.8	19	16.2	476	15.1
Front-to-side: same dir	59	3.5	18	3.7	10	3.5	10	2.7	1	2.2	2	1.9	2	2.9	4	3.4	106	3.4
Front-to-side: opp dir	192	11.5	59	12.1	36	12.5	42	11.4	8	17.8	15	14.4	10	14.5	18	15.4	380	12.1
Front-to-side: right angle	323	19.4	99	20.2	48	16.7	111	30.0	13	28.9	31	29.8	9	13.0	23	19.7	657	20.9
Front-to-side: other	10	0.6	5	1.0	2	0.7	5	1.4	0	0.0	1	1.0	0	0.0	2	1.7	25	0.8
Sideswipe:same dir	57	3.4	13	2.7	7	2.4	13	3.5	1	2.2	2	1.9	3	4.3	3	2.6	99	3.1
Sideswipe:opp dir	46	2.8	19	3.9	6	2.1	17	4.6	0	0.0	4	3.8	4	5.8	6	5.1	102	3.2
Rear-to-side	7	0.4	2	0.4	3	1.0	1	0.3	1	2.2	1	1.0	0	0.0	1	0.9	16	0.5
Rear-to-rear	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
Other	16	1.0	4	0.8	0	0.0	1	0.3	0	0.0	1	1.0	0	0.0	0	0.0	22	0.7
Unknown	3	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
<b>Total</b>	<b>1666</b>	<b>100.0</b>	<b>489</b>	<b>100.0</b>	<b>288</b>	<b>100.0</b>	<b>370</b>	<b>100.0</b>	<b>45</b>	<b>100.0</b>	<b>104</b>	<b>100.0</b>	<b>69</b>	<b>100.0</b>	<b>117</b>	<b>100.0</b>	<b>3148</b>	<b>100.0</b>

\* Note: The Other category includes 21 auto carriers and three refuse trucks.

**Table 6-22**  
**Fatal Truck Involvements by Accident Type and Driver Injury Severity – Tractor Combinations**  
**TIFA 2002**

Accident type	Fatal injury (K)		Incapacitating (A)		Non-incapacitating (B)		Complaint of pain (C)		No injury (O)		Died prior to accident		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<i>Single vehicle</i>																
Ran off road	195	49.7	18	13.7	2	0.7	11	3.2	3	0.2	3	100.0	1	3.8	233	7.4
Hit object in road	18	4.6	2	1.5	3	1.1	3	0.9	165	8.4	0	0.0	1	3.8	192	6.1
<i>Same direction, same trafficway</i>																
Rear-end, truck striking	46	11.7	6	4.6	16	5.7	22	6.4	102	5.2	0	0.0	0	0.0	192	6.1
Rear-end, truck struck	4	1.0	3	2.3	10	3.6	27	7.8	212	10.8	0	0.0	11	42.3	267	8.5
Sideswipe, in other's lane	3	0.8	0	0.0	0	0.0	1	0.3	21	1.1	0	0.0	0	0.0	25	0.8
Sideswipe, in truck's lane	9	2.3	0	0.0	7	2.5	8	2.3	81	4.1	0	0.0	0	0.0	105	3.3
<i>Opposite direction, same trafficway</i>																
Head-on, in other's lane	4	1.0	4	3.1	5	1.8	3	0.9	10	0.5	0	0.0	0	0.0	26	0.8
Head-on, in truck's lane	9	2.3	21	16.0	53	18.9	64	18.6	150	7.6	0	0.0	0	0.0	297	9.4
Sideswipe, in other's lane	6	1.5	5	3.8	9	3.2	5	1.4	21	1.1	0	0.0	0	0.0	46	1.5
Sideswipe, in truck's lane	5	1.3	11	8.4	29	10.3	35	10.1	184	9.3	0	0.0	2	7.7	266	8.4
<i>Change trafficway, one vehicle turning</i>																
Truck turn across path	0	0.0	2	1.5	0	0.0	6	1.7	101	5.1	0	0.0	2	7.7	111	3.5
Other turn across path	5	1.3	4	3.1	17	6.0	28	8.1	131	6.6	0	0.0	0	0.0	185	5.9
<i>Intersecting paths, both going straight</i>																
Truck into side of other	8	2.0	15	11.5	30	10.7	27	7.8	157	8.0	0	0.0	1	3.8	238	7.6
Other into side of truck	0	0.0	4	3.1	10	3.6	9	2.6	84	4.3	0	0.0	1	3.8	108	3.4
<i>Other accident types</i>																
Truck backed into other	1	0.3	0	0.0	0	0.0	0	0.0	17	0.9	0	0.0	0	0.0	18	0.6
Other backed into truck	0	0.0	0	0.0	1	0.4	0	0.0	2	0.1	0	0.0	0	0.0	3	0.1
Untripped roll	16	4.1	1	0.8	5	1.8	1	0.3	3	0.2	0	0.0	0	0.0	26	0.8
Other	39	9.9	28	21.4	47	16.7	59	17.1	374	19.0	0	0.0	6	23.1	553	17.6
Unknown	24	6.1	7	5.3	37	13.2	36	10.4	152	7.7	0	0.0	1	3.8	257	8.2
<b>Total</b>	<b>392</b>	<b>100.0</b>	<b>131</b>	<b>100.0</b>	<b>281</b>	<b>100.0</b>	<b>345</b>	<b>100.0</b>	<b>1970</b>	<b>100.0</b>	<b>3</b>	<b>100.0</b>	<b>26</b>	<b>100.0</b>	<b>3148</b>	<b>100.0</b>

**Table 6-23**  
**Fatal Truck Involvements by Driver Injury Severity and Cargo Body Style – Tractor Combinations**  
**TIFA 2002**

Driver injury severity	Van		Flatbed		Tank		Dump		Livestock		Pole/logging		Other*		None/unk		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Fatal injury (K)	189	11.3	55	11.2	66	22.9	43	11.6	5	11.1	15	14.4	8	11.6	11	9.4	392	12.5
Incapacitating (A)	69	4.1	16	3.3	10	3.5	16	4.3	2	4.4	4	3.8	7	10.1	7	6.0	131	4.2
Non-incapacitating (B)	145	8.7	44	9.0	28	9.7	34	9.2	3	6.7	7	6.7	3	4.3	17	14.5	281	8.9
Complaint of pain (C)	179	10.7	55	11.2	28	9.7	45	12.2	4	8.9	14	13.5	7	10.1	13	11.1	345	11.0
No injury (O)	1066	64.0	313	64.0	153	53.1	232	62.7	31	68.9	64	61.5	44	63.8	67	57.3	1970	62.6
Died prior to accident	2	0.1	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Unknown	16	1.0	5	1.0	3	1.0	0	0.0	0	0.0	0	0.0	0	0.0	2	1.7	26	0.8
<b>Total</b>	<b>1666</b>	<b>100.0</b>	<b>489</b>	<b>100.0</b>	<b>288</b>	<b>100.0</b>	<b>370</b>	<b>100.0</b>	<b>45</b>	<b>100.0</b>	<b>104</b>	<b>100.0</b>	<b>69</b>	<b>100.0</b>	<b>117</b>	<b>100.0</b>	<b>3148</b>	<b>100.0</b>

\* Note: The Other category includes 21 auto carriers and three refuse trucks.

**Table 6-24**  
**Fatal Truck Involvements by Driver Injury Severity and Rollover, Fire, Ejection Status – Tractor Combinations**  
**TIFA 2002**

Rollover, fire, and ejection	Fatal injury (K)		Incapacitating (A)		Non-incapacitating (B)		Complaint of pain (C)		No injury (O)		Died prior to accident		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Rollover only	104	26.5	29	22.1	50	17.8	41	11.9	43	2.2	0	0.0	0	0.0	267	8.5
Fire only	45	11.5	10	7.6	22	7.8	16	4.6	32	1.6	0	0.0	0	0.0	125	4.0
Ejection only	32	8.2	1	0.8	4	1.4	1	0.3	1	0.1	0	0.0	0	0.0	39	1.2
Rollover and fire	41	10.5	3	2.3	2	0.7	3	0.9	5	0.3	2	66.7	0	0.0	56	1.8
Rollover and ejection	51	13.0	3	2.3	2	0.7	0	0.0	0	0.0	0	0.0	0	0.0	56	1.8
Fire and ejection	8	2.0	1	0.8	0	0.0	0	0.0	0	0.0	1	33.3	0	0.0	10	0.3
Rollover, fire & eject	3	0.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
None	104	26.5	84	64.1	201	71.5	284	82.3	1888	95.8	0	0.0	10	38.5	2571	81.7
Unknown	4	1.0	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	16	61.5	21	0.7
<b>Total</b>	<b>392</b>	<b>100.0</b>	<b>131</b>	<b>100.0</b>	<b>281</b>	<b>100.0</b>	<b>345</b>	<b>100.0</b>	<b>1970</b>	<b>100.0</b>	<b>3</b>	<b>100.0</b>	<b>26</b>	<b>100.0</b>	<b>3148</b>	<b>100.0</b>

**Table 6-25**  
**Fatal Truck Involvements by Rollover Status and Gross Combination Weight – TRACTOR-SEMITRAILERS**  
**TIFA 2002**

Gross combination wt. (lbs)	No rollover		First event		Subsequent event		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
15,001-20,000	7	0.3	0	0.0	0	0.0	7	0.2
20,001-25,000	44	1.7	0	0.0	1	0.4	45	1.6
25,001-30,000	330	13.1	3	2.8	9	3.7	342	11.9
30,001-35,000	352	13.9	2	1.9	6	2.5	360	12.5
35,001-40,000	132	5.2	3	2.8	5	2.1	140	4.9
40,001-45,000	77	3.0	2	1.9	8	3.3	87	3.0
45,001-50,000	80	3.2	2	1.9	5	2.1	87	3.0
50,001-55,000	75	3.0	3	2.8	9	3.7	87	3.0
55,001-60,000	69	2.7	3	2.8	6	2.5	78	2.7
60,001-65,000	101	4.0	2	1.9	6	2.5	109	3.8
65,001-70,000	143	5.7	15	13.9	13	5.4	171	5.9
70,001-75,000	244	9.7	14	13.0	42	17.4	300	10.4
75,001-80,000	388	15.3	39	36.1	72	29.9	499	17.3
80,001-85,000	35	1.4	1	0.9	6	2.5	42	1.5
85,001-90,000	15	0.6	0	0.0	3	1.2	18	0.6
90,001-95,000	5	0.2	0	0.0	1	0.4	6	0.2
95,001-100,000	8	0.3	0	0.0	2	0.8	10	0.3
100,001-110,000	5	0.2	1	0.9	1	0.4	7	0.2
110,001-120,000	4	0.2	0	0.0	2	0.8	6	0.2
120,001-130,000	0	0.0	0	0.0	0	0.0	0	0.0
130,001-140,000	1	0.0	0	0.0	0	0.0	1	0.0
140,001-150,000	2	0.1	0	0.0	0	0.0	2	0.1
150,001 and over	1	0.0	0	0.0	0	0.0	1	0.0
Unknown	410	16.2	18	16.7	44	18.3	472	16.4
<b>Total</b>	<b>2528</b>	<b>100.0</b>	<b>108</b>	<b>100.0</b>	<b>241</b>	<b>100.0</b>	<b>2877</b>	<b>100.0</b>

**Table 6-26**  
**Fatal Truck Involvements by Jackknife Status and Gross Combination Weight – TRACTOR-SEMITRAILERS**  
**TIFA 2002**

Gross combination wt. (lbs)	No jackknife		First event		Subsequent event		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
15,001-20,000	6	0.2	1	1.4	0	0.0	7	0.2
20,001-25,000	37	1.4	3	4.3	5	3.2	45	1.6
25,001-30,000	296	11.2	15	21.4	31	19.6	342	11.9
30,001-35,000	328	12.4	12	17.1	20	12.7	360	12.5
35,001-40,000	120	4.5	8	11.4	12	7.6	140	4.9
40,001-45,000	81	3.1	2	2.9	4	2.5	87	3.0
45,001-50,000	77	2.9	2	2.9	8	5.1	87	3.0
50,001-55,000	80	3.0	1	1.4	6	3.8	87	3.0
55,001-60,000	76	2.9	0	0.0	2	1.3	78	2.7
60,001-65,000	104	3.9	1	1.4	4	2.5	109	3.8
65,001-70,000	165	6.2	0	0.0	6	3.8	171	5.9
70,001-75,000	284	10.7	4	5.7	12	7.6	300	10.4
75,001-80,000	466	17.6	7	10.0	26	16.5	499	17.3
80,001-85,000	40	1.5	1	1.4	1	0.6	42	1.5
85,001-90,000	16	0.6	1	1.4	1	0.6	18	0.6
90,001-95,000	5	0.2	0	0.0	1	0.6	6	0.2
95,001-100,000	9	0.3	0	0.0	1	0.6	10	0.3
100,001-110,000	7	0.3	0	0.0	0	0.0	7	0.2
110,001-120,000	5	0.2	0	0.0	1	0.6	6	0.2
120,001-130,000	0	0.0	0	0.0	0	0.0	0	0.0
130,001-140,000	1	0.0	0	0.0	0	0.0	1	0.0
140,001-150,000	2	0.1	0	0.0	0	0.0	2	0.1
150,001 and over	1	0.0	0	0.0	0	0.0	1	0.0
Unknown	443	16.7	12	17.1	17	10.8	472	16.4
Total	2649	100.0	70	100.0	158	100.0	2877	100.0





## ***Longer combination vehicles***

This section provides descriptive statistics on longer combination vehicles (LCVs) involved in a fatal traffic accident in 2002. The definition of a LCV is based on the Surface Transportation Assistance Act (STAA) of 1982, which restricted the states' ability to regulate truck weights and lengths within their borders. States were required to permit tractors with two trailers, each up to 28.5 feet long, to operate on interstate and other designated highways. In addition, states were prohibited from setting weight limits less than 80,000 pounds. For the purposes of this section, an LCV is defined as a combination vehicle with two or more trailers that exceeds the minimum weight and length standards set by the STAA of 1982.

Definition of an LCV:

- a truck-tractor with two trailers capable of carrying cargo;
- and at least one trailer longer than 29 feet.

OR

- a truck-tractor with two trailers capable of carrying cargo;
- and a gross combination weight greater than 80,000 pounds.

OR

- a truck-tractor pulling three trailers capable of carrying cargo.

Tables in this section classify LCVs as overlength, overweight, or both overlength and overweight. **Overlength** LCVs have at least one cargo-carrying trailer longer than 29 feet. **Overweight** LCVs exceed the weight standard but not the trailer length standard. LCVs categorized as **both** exceed both weight and length standards. **Triples** are LCVs with three cargo-carrying trailers. Some tables include, for comparison, a line for doubles that fall within the STAA requirements. These combinations consist of a tractor pulling two trailers, each less than 30 feet long, with a gross combination weight of 80,000 pounds or less. Such two-trailer configurations that fall within the STAA requirement are called **STAA doubles**.



**Table 7-1**  
**Fatal Truck Involvements of LCVs and "STAA Doubles" by Configuration**  
**TIFA 2002**

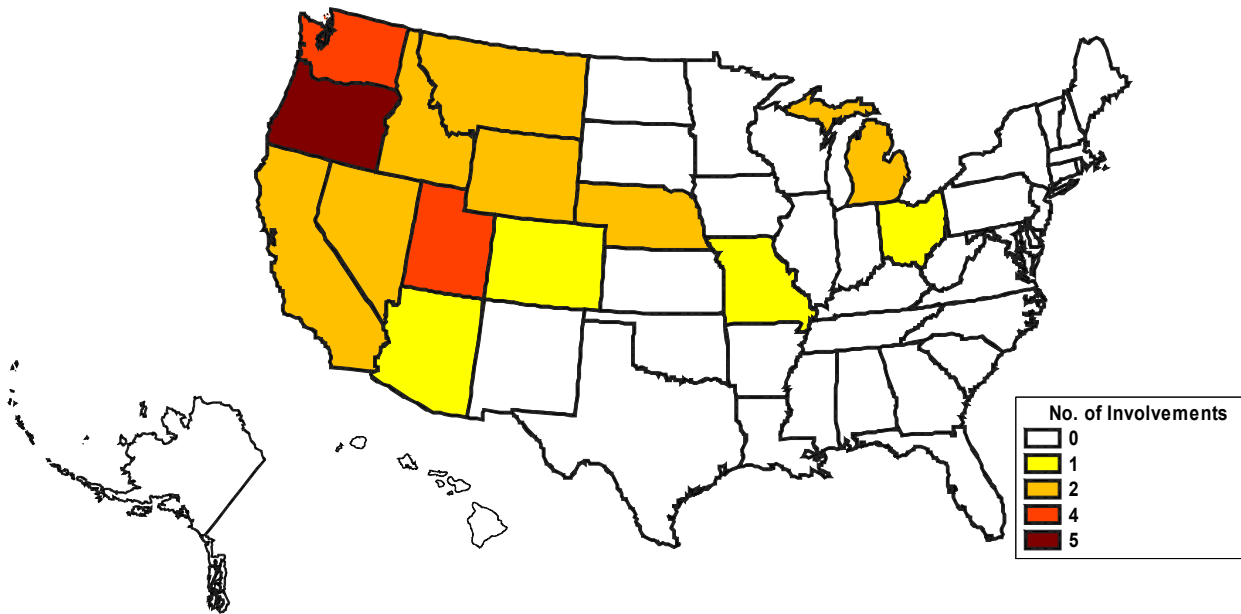
Configuration	No.	Pct.
<i>Longer combination vehicles</i>		
Double with A dolly	6	3.9
Double, B train	4	2.6
Tractor + semi + full	20	12.9
Triple with A dollies	1	0.6
<i>Subtotal</i>	31	20.0
<i>Non-LCV tractor and two trailers</i>		
<i>STAA double</i>		
Double with A dolly	62	40.0
Double, B train	1	0.6
Tractor + semi + full	46	29.7
<i>Subtotal</i>	109	70.3
<i>Unknown double</i>		
Double with A dolly	7	4.5
Double, B train	1	0.6
Double, unknown dolly	1	0.6
Tractor + semi + full	6	3.9
<i>Subtotal</i>	15	9.7
<b>Total</b>	<b>155</b>	<b>100.0</b>

**Table 7-2**  
**Fatal Truck Involvements of LCVs and "STAA Doubles" by Year**  
**TIFA 1998-2002**

Combination type	1998		1999		2000		2002		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<i>Longer combination vehicles</i>										
Overlength	23	13.9	16	10.5	12	7.3	13	8.4	64	10.0
Overweight	4	2.4	14	9.2	10	6.1	4	2.6	32	5.0
Both	18	10.9	11	7.2	19	11.6	13	8.4	61	9.6
Triple	1	0.6	2	1.3	2	1.2	1	0.6	6	0.9
<i>Subtotal</i>	46	27.9	43	28.1	43	26.2	31	20.0	163	25.6
<i>Non-LCV tractor and two trailers</i>										
STAA double	104	63.0	98	64.1	112	68.3	109	70.3	423	66.4
Unknown double	15	9.1	12	7.8	9	5.5	15	9.7	51	8.0
<b>Total</b>	<b>165</b>	<b>100.0</b>	<b>153</b>	<b>100.0</b>	<b>164</b>	<b>100.0</b>	<b>155</b>	<b>100.0</b>	<b>637</b>	<b>100.0</b>

**Table 7-3**  
**Fatal Truck Involvements for Common LCV Types**  
**TIFA 2002**

Combination type	No.	Pct.
Rocky Mountain double	11	35.5
Turnpike double	1	3.2
Other LCV	14	45.2
Overweight	4	12.9
Triple	1	3.2
Total	31	100.0



**Figure 7-1: Fatal LCV Involvements by State, TIFA 2002**

**Table 7-4  
Fatal Truck Involvements by State and LCV Type  
TIFA 2002**

State	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Arizona	1	7.7	0	0.0	0	0.0	0	0.0	1	3.2
California	1	7.7	1	25.0	0	0.0	0	0.0	2	6.5
Colorado	1	7.7	0	0.0	0	0.0	0	0.0	1	3.2
Idaho	2	15.4	0	0.0	0	0.0	0	0.0	2	6.5
Michigan	0	0.0	1	25.0	1	7.7	0	0.0	2	6.5
Missouri	0	0.0	1	25.0	0	0.0	0	0.0	1	3.2
Montana	0	0.0	0	0.0	2	15.4	0	0.0	2	6.5
Nebraska	2	15.4	0	0.0	0	0.0	0	0.0	2	6.5
Nevada	0	0.0	0	0.0	1	7.7	1	100.0	2	6.5
Ohio	0	0.0	0	0.0	1	7.7	0	0.0	1	3.2
Oregon	1	7.7	1	25.0	3	23.1	0	0.0	5	16.1
Utah	2	15.4	0	0.0	2	15.4	0	0.0	4	12.9
Washington	2	15.4	0	0.0	2	15.4	0	0.0	4	12.9
Wyoming	1	7.7	0	0.0	1	7.7	0	0.0	2	6.5
Total	13	100.0	4	100.0	13	100.0	1	100.0	31	100.0

**Table 7-5  
Fatal Truck Involvements and Fatalities for Selected Combination Types  
TIFA 2002**

Combination type	Involvements	Total fatalities	Fatalities per involvement
Longer combination vehicles			
Overlength	13	18	1.38
Overweight	4	4	1.00
Both	13	14	1.08
Triple	1	1	1.00
Subtotal	31	37	1.19
Non-LCV tractor and two trailers			
"STAA double"	109	140	1.28
Unknown double	15	22	1.47
Subtotal	124	162	1.31
Other tractor combination			
Tractor-semitrailer	2877	3095	1.08

**Table 7-6**  
**Fatal Truck Involvements by Total Length and LCV Type**  
**TIFA 2002**

Length (in feet)	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
56-60	0	0.0	1	25.0	0	0.0	0	0.0	1	3.2
61-65	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
66-70	1	7.7	2	50.0	0	0.0	0	0.0	3	9.7
71-75	0	0.0	1	25.0	1	7.7	0	0.0	2	6.5
76-80	4	30.8	0	0.0	2	15.4	0	0.0	6	19.4
81-85	3	23.1	0	0.0	3	23.1	0	0.0	6	19.4
86-90	2	15.4	0	0.0	2	15.4	0	0.0	4	12.9
91-95	2	15.4	0	0.0	3	23.1	1	100.0	6	19.4
96-100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
101 +	1	7.7	0	0.0	2	15.4	0	0.0	3	9.7
<b>Total</b>	<b>13</b>	<b>100.0</b>	<b>4</b>	<b>100.0</b>	<b>13</b>	<b>100.0</b>	<b>1</b>	<b>100.0</b>	<b>31</b>	<b>100.0</b>

**Table 7-7**  
**Fatal Truck Involvements by Gross Combination Weight and LCV Type**  
**TIFA 2002**

Gross combination weight (in lbs)	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
25,001-30,000	1	7.7	0	0.0	0	0.0	0	0.0	1	3.2
30,001-35,000	2	15.4	0	0.0	0	0.0	0	0.0	2	6.5
35,001-40,000	4	30.8	0	0.0	0	0.0	0	0.0	4	12.9
40,001-45,000	1	7.7	0	0.0	0	0.0	0	0.0	1	3.2
45,001-50,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50,001-55,000	1	7.7	0	0.0	0	0.0	0	0.0	1	3.2
55,001-60,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60,001-65,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
65,001-70,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70,001-75,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
75,001-80,000	0	0.0	0	0.0	0	0.0	1	100.0	1	3.2
80,001-85,000	0	0.0	1	25.0	0	0.0	0	0.0	1	3.2
85,001-90,000	0	0.0	1	25.0	1	7.7	0	0.0	2	6.5
90,001-95,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
95,001-100,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100,001-110,000	0	0.0	0	0.0	8	61.5	0	0.0	8	25.8
110,001-120,000	0	0.0	0	0.0	2	15.4	0	0.0	2	6.5
120,001-130,000	0	0.0	0	0.0	1	7.7	0	0.0	1	3.2
130,001-140,000	0	0.0	1	25.0	0	0.0	0	0.0	1	3.2
140,001-150,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150,001-160,000	0	0.0	1	25.0	1	7.7	0	0.0	2	6.5
Unknown	4	30.8	0	0.0	0	0.0	0	0.0	4	12.9
<b>Total</b>	<b>13</b>	<b>100.0</b>	<b>4</b>	<b>100.0</b>	<b>13</b>	<b>100.0</b>	<b>1</b>	<b>100.0</b>	<b>31</b>	<b>100.0</b>

**Table 7-8  
Fatal Truck Involvements by Cargo Body Style and LCV Type  
TIFA 2002**

Cargo body style	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Van	3	23.1	1	25.0	0	0.0	1	100.0	5	16.1
Refrigerated van	0	0.0	1	25.0	0	0.0	0	0.0	1	3.2
Flatbed	1	7.7	0	0.0	3	23.1	0	0.0	4	12.9
Tank:liquid/gas	1	7.7	0	0.0	4	30.8	0	0.0	5	16.1
Tank:dry bulk	0	0.0	0	0.0	1	7.7	0	0.0	1	3.2
Dump	1	7.7	1	25.0	1	7.7	0	0.0	3	9.7
Hopper bottom	7	53.8	1	25.0	4	30.8	0	0.0	12	38.7
<b>Total</b>	<b>13</b>	<b>100.0</b>	<b>4</b>	<b>100.0</b>	<b>13</b>	<b>100.0</b>	<b>1</b>	<b>100.0</b>	<b>31</b>	<b>100.0</b>

**Table 7-9  
Fatal Truck Involvements by Type of Cargo and LCV Type  
TIFA 2002**

Cargo type	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Empty	8	61.5	0	0.0	0	0.0	0	0.0	8	25.8
General freight	3	23.1	0	0.0	1	7.7	1	100.0	5	16.1
Building materials	0	0.0	0	0.0	1	7.7	0	0.0	1	3.2
Large objects	1	7.7	0	0.0	0	0.0	0	0.0	1	3.2
Solids in bulk	0	0.0	3	75.0	6	46.2	0	0.0	9	29.0
Liquids in bulk	1	7.7	0	0.0	4	30.8	0	0.0	5	16.1
Logs/poles/lumber	0	0.0	0	0.0	1	7.7	0	0.0	1	3.2
Refrigerated foods	0	0.0	1	25.0	0	0.0	0	0.0	1	3.2
<b>Total</b>	<b>13</b>	<b>100.0</b>	<b>4</b>	<b>100.0</b>	<b>13</b>	<b>100.0</b>	<b>1</b>	<b>100.0</b>	<b>31</b>	<b>100.0</b>

**Table 7-10  
Fatal Truck Involvements by Road Class and LCV Type  
TIFA 2002**

Road class	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Interstate/urban	1	7.7	0	0.0	3	23.1	0	0.0	4	12.9
Interstate/rural	5	38.5	0	0.0	2	15.4	0	0.0	7	22.6
Major arterial/urban	1	7.7	0	0.0	0	0.0	0	0.0	1	3.2
Major arterial/rural	3	23.1	3	75.0	7	53.8	1	100.0	14	45.2
Other/urban	2	15.4	0	0.0	0	0.0	0	0.0	2	6.5
Other/rural	1	7.7	1	25.0	1	7.7	0	0.0	3	9.7
<b>Total</b>	<b>13</b>	<b>100.0</b>	<b>4</b>	<b>100.0</b>	<b>13</b>	<b>100.0</b>	<b>1</b>	<b>100.0</b>	<b>31</b>	<b>100.0</b>



**Table 7-11**  
**Fatal Truck Involvements by Carrier Type and LCV Type**  
**TIFA 2002**

Carrier type	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Interstate private	0	0.0	1	25.0	4	30.8	0	0.0	5	16.1
Interstate for-hire	7	53.8	0	0.0	6	46.2	1	100.0	14	45.2
Intrastate private	4	30.8	3	75.0	1	7.7	0	0.0	8	25.8
Intrastate for-hire	1	7.7	0	0.0	1	7.7	0	0.0	2	6.5
Unknown	1	7.7	0	0.0	1	7.7	0	0.0	2	6.5
<b>Total</b>	<b>13</b>	<b>100.0</b>	<b>4</b>	<b>100.0</b>	<b>13</b>	<b>100.0</b>	<b>1</b>	<b>100.0</b>	<b>31</b>	<b>100.0</b>

**Table 7-12**  
**Fatal Truck Involvements by First Harmful Event and LCV Type**  
**TIFA 2002**

First harmful event	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<i>Collision</i>										
Motor vehicle	10	76.9	2	50.0	7	53.8	1	100.0	20	64.5
Pedestrian/bicyclist	2	15.4	0	0.0	0	0.0	0	0.0	2	6.5
Fixed object	1	7.7	1	25.0	3	23.1	0	0.0	5	16.1
<i>Noncollision</i>										
Rollover	0	0.0	0	0.0	2	15.4	0	0.0	2	6.5
Other non-collision	0	0.0	1	25.0	1	7.7	0	0.0	2	6.5
<b>Total</b>	<b>13</b>	<b>100.0</b>	<b>4</b>	<b>100.0</b>	<b>13</b>	<b>100.0</b>	<b>1</b>	<b>100.0</b>	<b>31</b>	<b>100.0</b>

# ***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***

An axle or group of axles that attach to a semitrailer; the B-train has a rear platform on which is mounted another fifth wheel onto which another trailer may be attached.

### ***Cabover***

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

### ***CDL***

Commercial Driver's License

### ***CNTBS***

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

### ***Combination vehicle***

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

### ***Conventional cab***

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

### ***Dolly (converter dolly)***

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

**Double**

A combination vehicle consisting of a tractor pulling two trailers.

**Ejection**

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

**Empty combination weight**

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

**FARS file**

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

**Fatal involvement**

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

**Fifth wheel**

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

**For-hire carrier**

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

**Full trailer**

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

**Gooseneck**

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

**Gross combination weight**

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

**Gross vehicle weight rating (GVWR)**

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

**Hopper bottom**

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

**Injury severity**

Injuries are classified according to the following categories:

K = a fatal injury

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

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

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

O = no injury

**Interstate carrier**

A carrier that transports goods across state lines.

**Intrastate carrier**

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

**Involvement**

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

**Jackknife**

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

**Jeep**

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

**License endorsements**

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

**Lift Axle**

An air-powered axle which, when lowered, will provide greater load carrying capacity.

**Longer combination vehicle**

In this publication, a longer combination vehicle is defined as follows:

- a truck-tractor with two trailers capable of carrying cargo;
- and at least one trailer longer than 29 feet.

or

- a truck-tractor with two trailers capable of carrying cargo;
- and a gross combination weight greater than 80,000 pounds.

or

- a truck-tractor pulling three trailers capable of carrying cargo.

**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.

**Rocky Mountain double**

In this publication it is defined as any combination with a first trailer over 40 feet long and a second trailer between 20 and 30 feet long.

**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.

**STAA double**

Doubles that fall within the Surface Transportation Assistance Act (STAA) requirements; i.e. a combination consisting of a tractor pulling two trailers, each no longer than 28.5 feet, with a gross combination weight of 80,000 lbs. or less.

**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.

**Turnpike double**

In this publication it is defined as any combination consisting of two trailers of the same length, each 40 to 48 feet long.

## Table of Abbreviations

<b>Abbreviation</b>	<b>Definition</b>
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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