

TRUCKS INVOLVED IN FATAL ACCIDENTS FACTBOOK 2003



Center for National Truck and Bus Statistics
University of Michigan Transportation Research Institute
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April 2007

Center for National Truck and Bus Statistics

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The research reported herein was conducted under the general research funds provided by the Federal Motor Carrier Safety Administration. 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 or the Federal Motor Carrier Safety Administration.

1. Report No. UMTRI-2007-14		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle Trucks Involved in Fatal Accidents Factbook 2003				5. Report Date April 2007	
				6. Performing Organization Code	
7. Authors Linda Jarossi, Anne Matteson, John Woodrooffe				8. Performing Organization Report No. UMTRI-2007-14	
9. Performing Organization Name and Address Transportation Research Institute 2901 Baxter Road University of Michigan Ann Arbor, Michigan 48109-2150				10. Work Unit No. 052701	
				11. Contract or Grant No. DTMC75-06-H-00003	
12. Sponsoring Agency Name and Address				13. Type of Report and Period Covered Special report	
				14. Sponsoring Agency Code	
15. Supplementary Notes Funds provided by: Federal Motor Carrier Safety Administration Washington DC 20590; and, Affiliates Program, Center for National Truck and Bus Statistics					
16. Abstract <p>This document presents aggregate statistics on trucks involved in traffic accidents in 2003. 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 Trucks, medium trucks, heavy trucks, accident statistics, fatal accident data			18. Distribution Statement Unlimited		
19. Security Classification (of this report) Unclassified		20. Security Classification (of this page) Unclassified		21. No. of Pages 114	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
LENGTH					LENGTH				
	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					
AREA					AREA				
in ²	square inches	645.2	square millimeters	mm ²	mm ²	square millimeters	0.0016	square inches	in ²
ft ²	square feet	0.093	square meters	m ²	m ²	square meters	10.764	square feet	ft ²
yd ²	square yards	0.836	square meters	m ²	ha	hectares	2.47	acres	ac
ac	acres	0.405	hectares	ha	km ²	square kilometers	0.386	square miles	mi ²
mi ²	square miles	2.59	square kilometers	km ²					
VOLUME					VOLUME				
fl oz	fluid ounces	29.57	milliliters	mL	mL	milliliters	0.034	fluid ounces	fl oz
gal	gallons	3.785	liters	L	L	liters	0.264	gallons	gal
ft ³	cubic feet	0.028	cubic meters	m ³	m ³	cubic meters	35.71	cubic feet	ft ³
yd ³	cubic yards	0.765	cubic meters	m ³	m ³	cubic meters	1.307	cubic yards	yd ³
NOTE: Volumes greater than 1000 L shall be shown in m ³ .									
MASS					MASS				
oz	ounces	28.35	grams	g	g	grams	0.035	ounces	oz
lb	pounds	0.454	kilograms	kg	kg	kilograms	2.202	pounds	lb
T	short tons (2000 lb)	0.907	megagrams (or "metric ton")	Mg (or "t")	Mg (or "t")	megagrams (or "metric ton")	1.103	short tons (2000 lb)	T
TEMPERATURE (exact)					TEMPERATURE (exact)				
°F	Fahrenheit temperature	5(F-32)/9 or (F-32)/1.8	Celcius temperature	°C	°C	Celcius temperature	1.8C + 32	Fahrenheit temperature	°F
ILLUMINATION					ILLUMINATION				
fc	foot-candles	10.76	lux	lx	lx	lux	0.0929	foot-candles	fc
fl	foot-Lamberts	3.426	candela/m ²	cd/m ²	cd/m ²	candela/m ²	0.2919	foot-lamberts	fl
FORCE and PRESSURE or STRESS					FORCE and PRESSURE or STRESS				
lbf	poundforce	4.45	newtons	N	N	newtons	0.225	poundforce	lbf
lbf/in ²	poundforce per square inch	6.89	kilopascals	kPa	kPa	kilopascals	0.145	poundforce per square inch	lbf/in ²

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

(Revised September 1993)

Acknowledgments

The data documented in this report are the product of the dedicated efforts of many people. The study originated under the direction of Ken Campbell and Oliver Carsten, with Daniel Blower directing the current project. 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 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, 2003*, 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 2003 TIFA file is a census file, meaning there is one record for each of the 5,104 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, 2003*.

Report overview

This report consists of seven sections. The "Trends" section provides data on fatalities and fatal accident involvements from 1999 through 2003. 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, 1999-2003

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 5,100 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 1999 to 2003.
- The number of persons killed in accidents involving a truck increased to 5,409 in 2003, after decreasing to 5,314 in 2002.
- The number of truck drivers killed in traffic accidents increased from 664 in 2002 to 700 in 2003.
- An average of 362 pedestrians and 68 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 1999-2003

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.
1999	1483	224	130	3159	151	36	50	5233
2000	1519	222	123	3164	162	38	47	5275
2001	1494	211	110	3014	166	41	105	5141
2002	1284	183	95	2877	154	36	321	4950
2003	1499	218	87	3005	157	38	100	5104
Total	7279	1058	545	15219	790	189	623	25703

**Table 1-2
Fatal Truck Involvements by Year and All Truck Configurations
TIFA 1999-2003**

Configuration	1999	2000	2001	2002	2003	Total
	No.	No.	No.	No.	No.	No.
Straight only	1483	1519	1494	1284	1499	7279
Straight + full trailer	54	47	56	44	37	238
Straight + other	126	127	109	97	122	581
Straight + other, gooseneck hitch	44	48	46	42	59	239
Wrecker + tow	10	11	15	11	19	66
Straight, unknown if trailer	0	2	9	2	4	17
Straight + other trailer + other trailer	0	0	1	0	0	1
Straight + 2 full trailers	0	0	1	1	0	2
Straight + other (gooseneck) + other	0	1	1	0	0	2
Bobtail tractor	110	110	101	87	83	491
Tractor carrying cargo	20	13	9	8	4	54
Tractor and semitrailer	3159	3164	3014	2877	3005	15219
Tractor + other	18	15	13	12	8	66
Tractor + semi + A dolly	0	2	0	0	1	3
Tractor + full trailer	1	1	0	0	1	3
Double with A dolly	87	86	82	75	99	429
Double, B train	1	7	3	6	3	20
Double with unknown dolly type	0	0	6	1	2	9
Tractor + semi + full	62	66	70	72	51	321
Tractor + semi + other	1	1	3	0	0	5
Tractor + semi + unknown	0	2	2	0	2	6
Triple with A dollies	2	2	0	1	1	6
Tractor + 3 trailers	0	0	1	0	0	1
Tractor + jeep + semi + jeep	0	2	0	1	1	4
Tractor + semi + jeep	1	0	0	1	1	3
Tractor + jeep + semi	0	0	0	3	0	3
Tractor + jeep + full + jeep	1	0	0	0	0	1
Tractor + 1 saddlemount tractor	0	1	0	2	0	3
Tractor + 2 saddlemount tractors	0	0	0	2	1	3
Tractor + 3 saddlemount tractors	1	0	0	0	0	1
Wrecker + straight + full	1	0	0	0	0	1
Straight + 2 saddlemount straights	1	0	0	0	1	2
Wrecker towing other trailer	0	1	0	0	0	1
Unknown	50	47	105	321	100	623
Total	5233	5275	5141	4950	5104	25703

Table 1-3: Fatal Truck Involvements by Year and State, TIFA 1999-2003

State	1999	2000	2001	2002	2003	Total
	No.	No.	No.	No.	No.	No.
Alabama	146	154	153	128	155	736
Alaska	7	4	9	5	5	30
Arizona	117	107	90	96	112	522
Arkansas	98	119	109	85	106	517
California	347	396	381	374	360	1858
Colorado	65	75	94	60	63	357
Connecticut	24	39	27	17	25	132
Delaware	10	21	12	19	17	79
Dist of Columbia	2	4	1	1	0	8
Florida	344	321	357	390	380	1792
Georgia	233	219	243	214	228	1137
Hawaii	3	2	9	4	5	23
Idaho	26	27	32	32	38	155
Illinois	204	171	188	172	192	927
Indiana	195	170	144	131	174	814
Iowa	102	87	80	76	66	411
Kansas	80	85	83	80	79	407
Kentucky	104	99	102	121	130	556
Louisiana	124	118	140	107	121	610
Maine	27	27	28	26	16	124
Maryland	65	67	79	66	69	346
Massachusetts	37	49	31	25	37	179
Michigan	144	152	130	136	121	683
Minnesota	90	78	62	86	68	384
Mississippi	118	122	93	78	81	492
Missouri	169	179	138	167	161	814
Montana	15	27	30	30	26	128
Nebraska	62	55	63	61	55	296
Nevada	44	37	44	39	42	206
New Hampshire	11	11	14	18	14	68
New Jersey	61	94	76	55	68	354
New Mexico	52	44	56	60	44	256
New York	156	162	144	143	156	761
North Carolina	204	178	196	177	175	930
North Dakota	20	11	12	18	15	76
Ohio	214	199	168	194	158	933
Oklahoma	97	116	92	126	126	557
Oregon	50	65	54	47	56	272
Pennsylvania	217	188	176	192	221	994
Rhode Island	9	2	6	5	7	29
South Carolina	144	96	120	101	100	561
South Dakota	19	22	24	16	17	98
Tennessee	173	172	137	136	123	741
Texas	434	499	509	445	507	2394
Utah	39	44	34	40	23	180
Vermont	8	8	6	11	13	46
Virginia	108	107	128	90	132	565
Washington	60	69	58	57	42	286
West Virginia	51	51	52	59	55	268
Wisconsin	77	106	101	105	90	479
Wyoming	27	20	26	29	30	132
Total	5233	5275	5141	4950	5104	25703

Table 1-4: Fatal Truck Involvements by Year and State – STRAIGHT TRUCKS ONLY, TIFA 1999-2003

State	1999	2000	2001	2002	2003	Total
	No.	No.	No.	No.	No.	No.
Alabama	29	41	39	31	36	176
Alaska	4	4	5	2	3	18
Arizona	27	35	31	30	36	159
Arkansas	27	35	25	15	25	127
California	118	154	139	122	147	680
Colorado	20	37	37	27	13	134
Connecticut *	10	18	11	8	11	58
Delaware	3	9	6	7	6	31
Dist of Columbia	2	3	0	1	0	6
Florida	125	133	132	116	163	669
Georgia	87	63	82	68	76	376
Hawaii	3	1	7	2	3	16
Idaho	8	6	13	13	13	53
Illinois	54	50	27	41	47	219
Indiana	52	46	46	41	41	226
Iowa	16	24	20	17	21	98
Kansas	21	27	28	20	24	120
Kentucky	45	34	36	48	48	211
Louisiana	38	29	46	31	33	177
Maine	11	17	11	13	8	60
Maryland	35	27	38	30	34	164
Massachusetts	15	26	19	13	21	94
Michigan	55	53	52	59	48	267
Minnesota	26	26	18	32	25	127
Mississippi *	11	21	20	7	6	65
Missouri	57	50	40	63	52	262
Montana	5	8	7	15	9	44
Nebraska	15	15	20	8	12	70
Nevada	11	14	11	6	12	54
New Hampshire	5	4	9	7	7	32
New Jersey *	24	50	35	15	13	137
New Mexico *	9	7	13	13	4	46
New York	76	89	73	49	80	367
North Carolina	78	52	68	61	63	322
North Dakota	5	0	3	4	5	17
Ohio	76	70	62	44	55	307
Oklahoma	30	32	26	21	46	155
Oregon	7	21	22	14	17	81
Pennsylvania	81	49	35	48	87	300
Rhode Island	8	1	5	2	2	18
South Carolina	30	24	39	31	33	157
South Dakota	11	8	5	3	6	33
Tennessee	52	41	43	43	37	216
Texas	172	143	177	87	164	743
Utah	8	12	4	4	8	36
Vermont	5	3	3	4	5	20
Virginia	28	43	49	33	48	201
Washington	27	27	16	31	21	122
West Virginia	22	17	19	21	23	102
Wisconsin	32	52	49	48	37	218
Wyoming	3	5	11	11	7	37
Total	1719	1756	1732	1480	1741	8428

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 2003 cases. The states did not supply all needed police reports.

Table 1-5: Fatal Truck Involvements by Year and State – TRACTOR-SEMITRAILERS ONLY, TIFA 1999-2003

State	1999 No.	2000 No.	2001 No.	2002 No.	2003 No.	Total No.
Alabama	109	109	101	88	110	517
Alaska	3	0	1	2	1	7
Arizona	83	68	55	61	67	334
Arkansas	57	77	76	66	75	351
California	170	184	184	182	156	876
Colorado	40	36	53	31	48	208
Connecticut *	13	19	15	9	6	62
Delaware	7	11	6	11	11	46
Dist of Columbia	0	0	1	0	0	1
Florida	197	178	217	224	201	1017
Georgia	138	149	151	133	147	718
Hawaii	0	1	2	2	2	7
Idaho	15	16	14	16	21	82
Illinois	145	110	111	81	131	578
Indiana	133	114	94	82	129	552
Iowa	76	60	52	43	42	273
Kansas	57	55	52	57	49	270
Kentucky	55	64	64	69	79	331
Louisiana	81	81	92	69	86	409
Maine	15	10	17	13	8	63
Maryland	26	39	41	34	33	173
Massachusetts	21	21	11	10	14	77
Michigan	67	84	67	67	65	350
Minnesota	63	51	43	47	37	241
Mississippi *	67	89	65	40	36	297
Missouri	99	116	91	95	104	505
Montana	7	17	17	11	11	63
Nebraska	45	37	40	46	43	211
Nevada	27	16	29	17	26	115
New Hampshire	6	7	4	11	7	35
New Jersey *	33	42	35	12	22	144
New Mexico *	42	34	41	44	28	189
New York	78	71	64	63	73	349
North Carolina	115	122	117	110	102	566
North Dakota	15	9	8	12	10	54
Ohio	133	120	94	128	98	573
Oklahoma	64	80	62	86	77	369
Oregon	34	32	28	26	29	149
Pennsylvania	127	96	94	105	123	545
Rhode Island	1	1	1	3	5	11
South Carolina	106	64	74	66	62	372
South Dakota	7	12	17	11	10	57
Tennessee	114	116	88	87	79	484
Texas	251	329	309	291	329	1509
Utah	26	24	22	30	11	113
Vermont	3	5	3	7	8	26
Virginia	73	59	74	56	80	342
Washington	20	31	24	19	16	110
West Virginia	28	33	29	33	30	153
Wisconsin	44	52	50	55	48	249
Wyoming	23	13	14	16	20	86
Total	3159	3164	3014	2877	3005	15219

* In these states, truck configuration was unknown in at least 10% of the 2003 cases. The states did not supply all needed police reports.

Table 1-6: Fatal Truck Involvements by Year and State – DOUBLES ONLY, TIFA 1999-2003

State	1999	2000	2001	2002	2003	Total
	No.	No.	No.	No.	No.	No.
Alabama	0	1	3	3	5	12
Alaska	0	0	2	0	1	3
Arizona	3	3	4	3	8	21
Arkansas	5	4	4	3	3	19
California	40	45	42	59	43	229
Colorado	1	0	4	1	1	7
Connecticut *	0	1	0	0	1	2
Delaware	0	0	0	0	0	0
Dist of Columbia	0	0	0	0	0	0
Florida	3	4	4	2	4	17
Georgia	1	2	3	3	3	12
Hawaii	0	0	0	0	0	0
Idaho	2	5	4	2	2	15
Illinois	3	4	1	1	2	11
Indiana	7	5	2	4	3	21
Iowa	3	0	3	1	0	7
Kansas	0	3	2	0	3	8
Kentucky	1	0	1	1	1	4
Louisiana	1	1	1	4	1	8
Maine	0	0	0	0	0	0
Maryland	1	1	0	0	0	2
Massachusetts	1	0	1	0	0	2
Michigan	15	11	8	7	7	48
Minnesota	1	0	0	0	2	3
Mississippi *	2	2	2	0	2	8
Missouri	9	7	5	6	3	30
Montana	2	0	4	2	4	12
Nebraska	1	2	2	3	0	8
Nevada	5	2	3	2	3	15
New Hampshire	0	0	0	0	0	0
New Jersey *	0	0	2	1	1	4
New Mexico *	1	3	2	2	2	10
New York	0	0	0	3	1	4
North Carolina	4	3	4	1	8	20
North Dakota	0	2	1	0	0	3
Ohio	4	4	6	4	4	22
Oklahoma	0	1	2	1	1	5
Oregon	7	8	3	5	5	28
Pennsylvania	3	3	2	3	6	17
Rhode Island	0	0	0	0	0	0
South Carolina	5	3	3	0	0	11
South Dakota	1	1	1	1	1	5
Tennessee	4	4	2	4	4	18
Texas	1	7	10	7	9	34
Utah	3	5	4	4	4	20
Vermont	0	0	0	0	0	0
Virginia	2	2	2	1	1	8
Washington	6	10	13	5	2	36
West Virginia	1	1	2	2	1	7
Wisconsin	1	0	1	1	2	5
Wyoming	1	2	1	2	3	9
Total	151	162	166	154	157	790

* In these states, truck configuration was unknown in at least 10% of the 2003 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 1999-2003

Vehicle/Person type	1999		2000		2001		2002		2003	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<i>Truck</i>										
Driver	698	12.3	713	12.8	676	12.4	664	12.5	700	12.9
Passenger	136	2.4	111	2.0	145	2.7	124	2.3	123	2.3
Unk occ type	2	0.0	4	0.1	0	0.0	1	0.0	2	0.0
Truck total	836	14.7	828	14.9	821	15.1	789	14.8	825	15.3
<i>Other vehicle</i>										
Drivers	3169	55.6	3131	56.2	3081	56.6	3026	56.9	3029	56.0
Passengers	1216	21.3	1157	20.8	1053	19.3	1087	20.5	1110	20.5
Unk occ type	6	0.1	9	0.2	8	0.1	4	0.1	10	0.2
Other vehicle total	4391	77.1	4297	77.2	4142	76.1	4117	77.5	4149	76.7
<i>Non-motorists</i>										
In parked vehicle	12	0.2	11	0.2	14	0.3	12	0.2	9	0.2
Pedestrian	371	6.5	358	6.4	392	7.2	325	6.1	364	6.7
Bicyclist	71	1.2	70	1.3	73	1.3	69	1.3	59	1.1
Other/unknown	15	0.3	3	0.1	0	0.0	2	0.0	3	0.1
Non-motorist total	469	8.2	442	7.9	479	8.8	408	7.7	435	8.0
Total	5696	100.0	5567	100.0	5442	100.0	5314	100.0	5409	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 499, while January had the fewest with 345.
- About two-thirds of fatal accident involvements occur in rural areas.
- Almost two-thirds of fatal accident involvements occur in daylight.
- 80.9% of fatal accident involvements occur on dry roads.
- 84.4% of fatal accident involvements occur in “normal” (i.e., no precipitation) weather conditions.
- 28.1% of fatal involvements occur on state highways, 25.9% on U.S. highways, and 27.0% on Interstate highways.
- In 10.9% of fatal involvements, the other vehicle crossed the center line of the road and struck the truck head on.

Geographic distributions

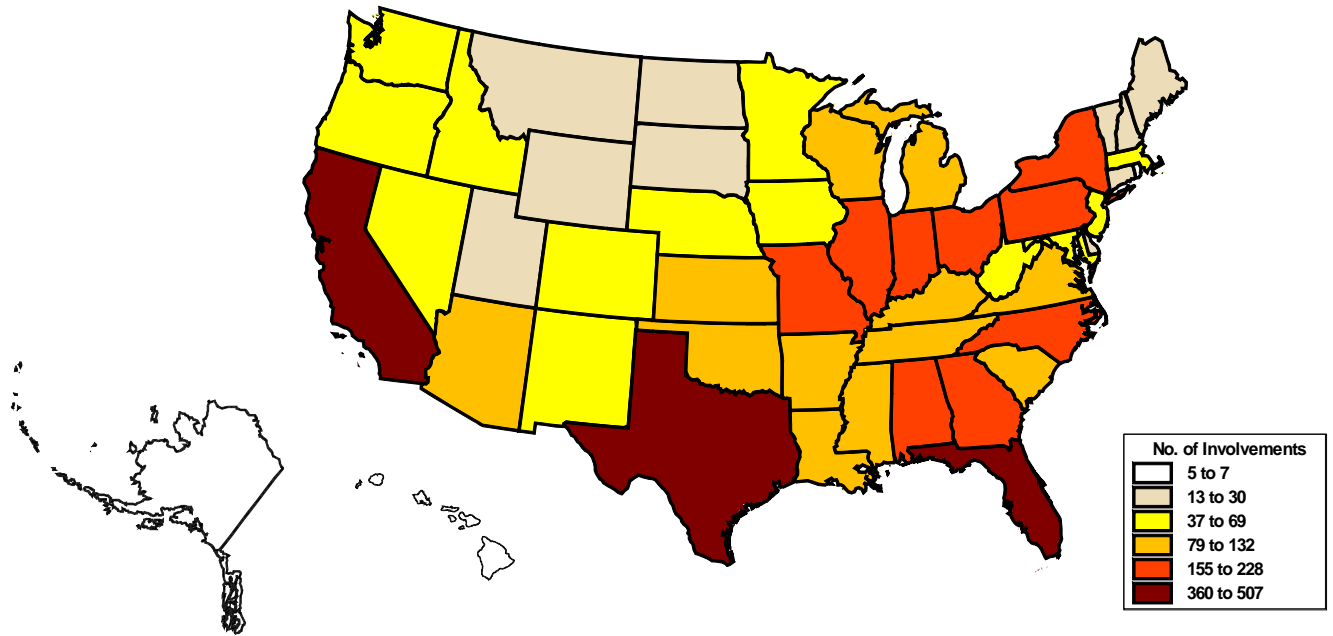


Figure 2-1: Fatal Truck Involvements by State, TIFA 2003

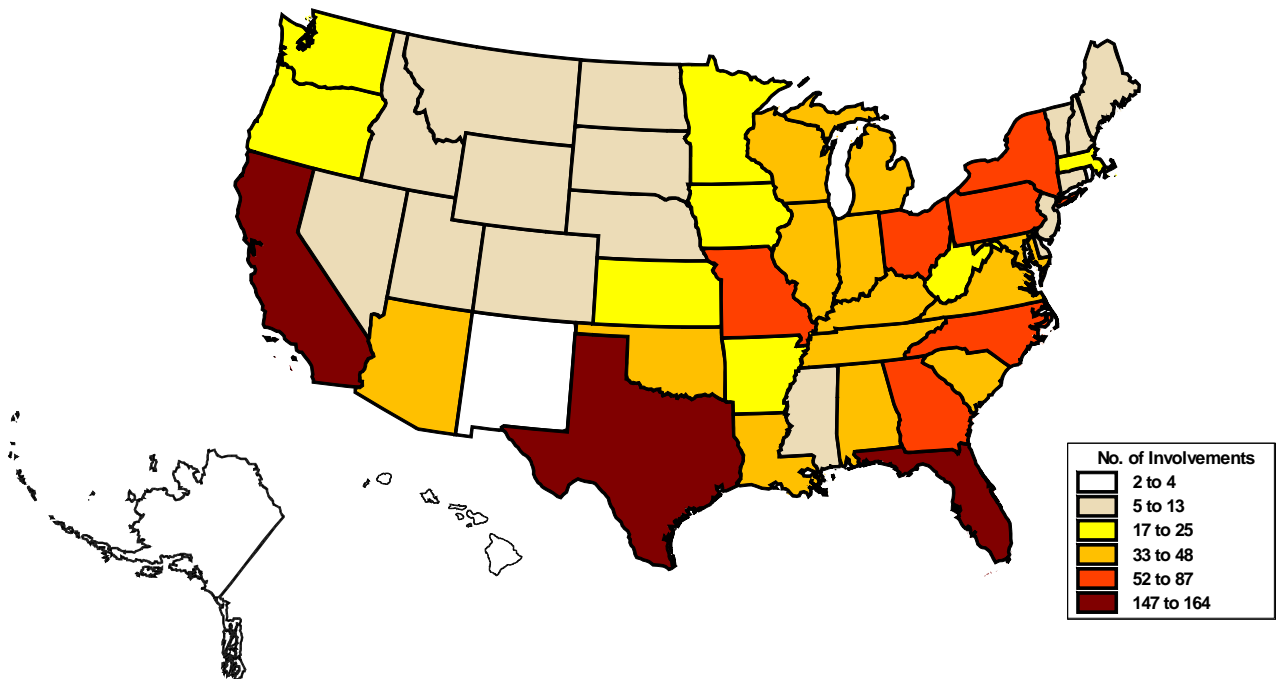


Figure 2-2: Fatal Truck Involvements by State – STRAIGHT TRUCKS ONLY, TIFA 2003

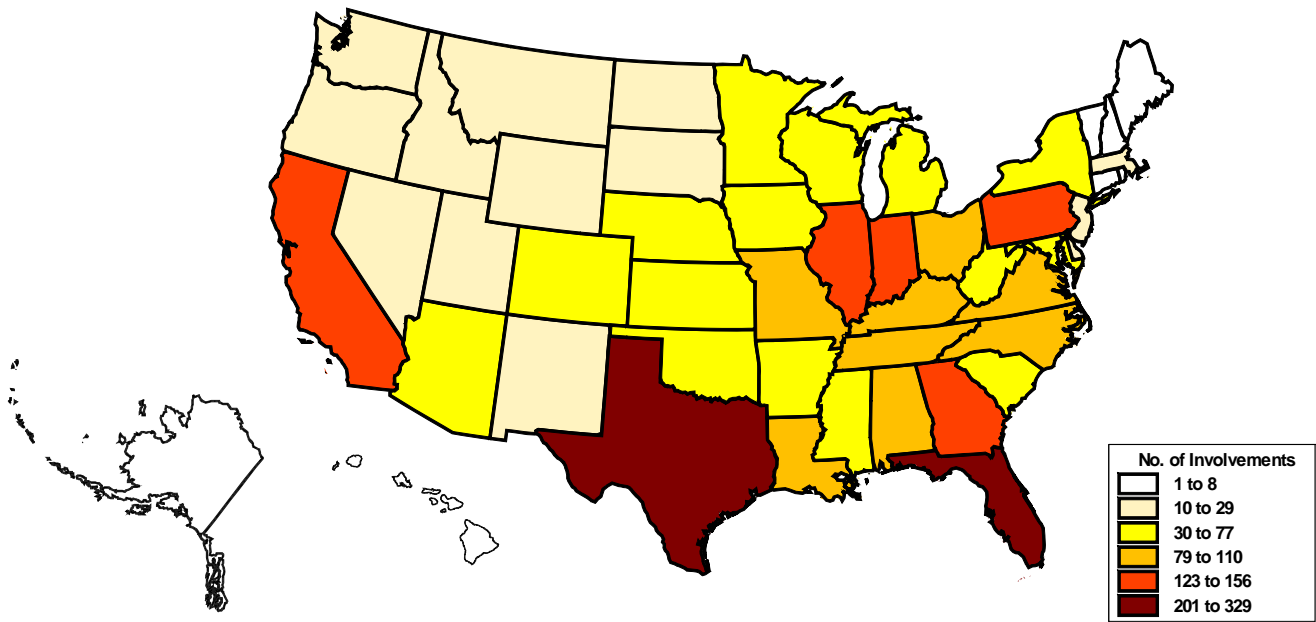


Figure 2-3: Fatal Truck Involvements by State – TRACTOR-SEMITRAILERS ONLY, TIFA 2003

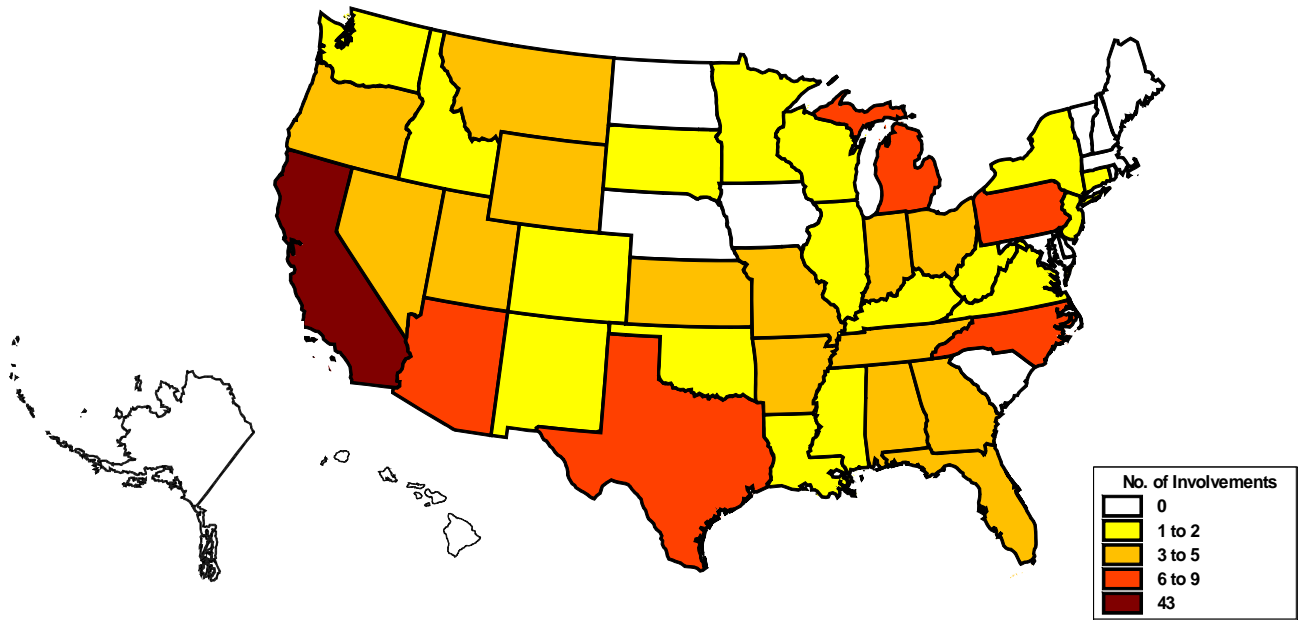


Figure 2-4: Fatal Truck Involvements by State – DOUBLES ONLY, TIFA 2003

Table 2-1: Fatal Truck Involvements by State and Truck Configuration, TIFA 2003

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	33	2.2	3	1.4	2	2.3	110	3.7	5	3.2	2	5.3	0	0.0	155	3.0
Alaska	3	0.2	0	0.0	0	0.0	1	0.0	1	0.6	0	0.0	0	0.0	5	0.1
Arizona	27	1.8	8	3.7	1	1.1	67	2.2	8	5.1	1	2.6	0	0.0	112	2.2
Arkansas	23	1.5	2	0.9	3	3.4	75	2.5	3	1.9	0	0.0	0	0.0	106	2.1
California	117	7.8	26	11.9	12	13.8	156	5.2	43	27.4	5	13.2	1	1.0	360	7.1
Colorado	13	0.9	0	0.0	0	0.0	48	1.6	1	0.6	1	2.6	0	0.0	63	1.2
Connecticut *	11	0.7	0	0.0	1	1.1	6	0.2	1	0.6	0	0.0	6	6.0	25	0.5
Delaware	4	0.3	2	0.9	0	0.0	11	0.4	0	0.0	0	0.0	0	0.0	17	0.3
Dist of Columbia	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Florida	138	9.2	22	10.1	10	11.5	201	6.7	4	2.5	3	7.9	2	2.0	380	7.4
Georgia	67	4.5	9	4.1	2	2.3	147	4.9	3	1.9	0	0.0	0	0.0	228	4.5
Hawaii	3	0.2	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Idaho	10	0.7	3	1.4	1	1.1	21	0.7	2	1.3	0	0.0	1	1.0	38	0.7
Illinois	45	3.0	2	0.9	3	3.4	131	4.4	2	1.3	0	0.0	9	9.0	192	3.8
Indiana	39	2.6	1	0.5	1	1.1	129	4.3	3	1.9	1	2.6	0	0.0	174	3.4
Iowa	17	1.1	3	1.4	1	1.1	42	1.4	0	0.0	1	2.6	2	2.0	66	1.3
Kansas	22	1.5	2	0.9	2	2.3	49	1.6	3	1.9	1	2.6	0	0.0	79	1.5
Kentucky	44	2.9	4	1.8	2	2.3	79	2.6	1	0.6	0	0.0	0	0.0	130	2.5
Louisiana	26	1.7	7	3.2	0	0.0	86	2.9	1	0.6	1	2.6	0	0.0	121	2.4
Maine	8	0.5	0	0.0	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	16	0.3
Maryland	33	2.2	1	0.5	2	2.3	33	1.1	0	0.0	0	0.0	0	0.0	69	1.4
Massachusetts	18	1.2	3	1.4	1	1.1	14	0.5	0	0.0	1	2.6	0	0.0	37	0.7
Michigan	38	2.5	8	3.7	1	1.1	65	2.2	7	4.5	2	5.3	0	0.0	121	2.4
Minnesota	20	1.3	5	2.3	4	4.6	37	1.2	2	1.3	0	0.0	0	0.0	68	1.3
Mississippi *	6	0.4	0	0.0	4	4.6	36	1.2	2	1.3	0	0.0	33	33.0	81	1.6
Missouri	43	2.9	9	4.1	2	2.3	104	3.5	3	1.9	0	0.0	0	0.0	161	3.2
Montana	7	0.5	2	0.9	1	1.1	11	0.4	4	2.5	0	0.0	1	1.0	26	0.5
Nebraska	11	0.7	1	0.5	0	0.0	43	1.4	0	0.0	0	0.0	0	0.0	55	1.1
Nevada	11	0.7	1	0.5	1	1.1	26	0.9	3	1.9	0	0.0	0	0.0	42	0.8
New Hampshire	6	0.4	1	0.5	0	0.0	7	0.2	0	0.0	0	0.0	0	0.0	14	0.3
New Jersey *	12	0.8	1	0.5	1	1.1	22	0.7	1	0.6	0	0.0	31	31.0	68	1.3
New Mexico *	2	0.1	2	0.9	0	0.0	28	0.9	2	1.3	0	0.0	10	10.0	44	0.9
New York	74	4.9	4	1.8	1	1.1	73	2.4	1	0.6	2	5.3	1	1.0	156	3.1
North Carolina	56	3.7	6	2.8	2	2.3	102	3.4	8	5.1	1	2.6	0	0.0	175	3.4
North Dakota	5	0.3	0	0.0	0	0.0	10	0.3	0	0.0	0	0.0	0	0.0	15	0.3
Ohio	53	3.5	1	0.5	1	1.1	98	3.3	4	2.5	1	2.6	0	0.0	158	3.1
Oklahoma	34	2.3	12	5.5	2	2.3	77	2.6	1	0.6	0	0.0	0	0.0	126	2.5
Oregon	15	1.0	2	0.9	3	3.4	29	1.0	5	3.2	2	5.3	0	0.0	56	1.1
Pennsylvania	81	5.4	5	2.3	1	1.1	123	4.1	6	3.8	2	5.3	3	3.0	221	4.3
Rhode Island	2	0.1	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	7	0.1
South Carolina	29	1.9	4	1.8	5	5.7	62	2.1	0	0.0	0	0.0	0	0.0	100	2.0
South Dakota	5	0.3	1	0.5	0	0.0	10	0.3	1	0.6	0	0.0	0	0.0	17	0.3
Tennessee	28	1.9	9	4.1	1	1.1	79	2.6	4	2.5	2	5.3	0	0.0	123	2.4
Texas	133	8.9	28	12.8	5	5.7	329	10.9	9	5.7	3	7.9	0	0.0	507	9.9
Utah	7	0.5	1	0.5	0	0.0	11	0.4	4	2.5	0	0.0	0	0.0	23	0.5
Vermont	3	0.2	2	0.9	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	13	0.3
Virginia	43	2.9	2	0.9	2	2.3	80	2.7	1	0.6	4	10.5	0	0.0	132	2.6
Washington	17	1.1	4	1.8	2	2.3	16	0.5	2	1.3	1	2.6	0	0.0	42	0.8
West Virginia	23	1.5	0	0.0	1	1.1	30	1.0	1	0.6	0	0.0	0	0.0	55	1.1
Wisconsin	29	1.9	7	3.2	3	3.4	48	1.6	2	1.3	1	2.6	0	0.0	90	1.8
Wyoming	5	0.3	2	0.9	0	0.0	20	0.7	3	1.9	0	0.0	0	0.0	30	0.6
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

* In these states, truck configuration was unknown in at least 10% of the 2003 cases. The states did not supply all needed police reports.

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

Temporal distributions

Table 2-2
Fatal Truck Involvements by Month and Truck Configuration
TIFA 2003

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	93	6.2	16	7.3	1	1.1	216	7.2	7	4.5	1	2.6	11	11.0	345	6.8
February	113	7.5	14	6.4	7	8.0	233	7.8	10	6.4	6	15.8	3	3.0	386	7.6
March	101	6.7	13	6.0	5	5.7	226	7.5	19	12.1	2	5.3	5	5.0	371	7.3
April	121	8.1	21	9.6	9	10.3	271	9.0	11	7.0	5	13.2	7	7.0	445	8.7
May	110	7.3	13	6.0	6	6.9	236	7.9	14	8.9	3	7.9	5	5.0	387	7.6
June	125	8.3	14	6.4	6	6.9	263	8.8	12	7.6	2	5.3	13	13.0	435	8.5
July	131	8.7	28	12.8	8	9.2	244	8.1	14	8.9	4	10.5	6	6.0	435	8.5
August	144	9.6	18	8.3	7	8.0	236	7.9	14	8.9	6	15.8	9	9.0	434	8.5
September	151	10.1	23	10.6	9	10.3	255	8.5	13	8.3	1	2.6	8	8.0	460	9.0
October	142	9.5	20	9.2	12	13.8	295	9.8	13	8.3	3	7.9	14	14.0	499	9.8
November	134	8.9	20	9.2	11	12.6	254	8.5	14	8.9	2	5.3	10	10.0	445	8.7
December	132	8.8	18	8.3	6	6.9	276	9.2	16	10.2	3	7.9	9	9.0	460	9.0
Unknown	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 2-3
Fatal Truck Involvements by Day of Week and Truck Configuration
TIFA 2003

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	73	4.9	19	8.7	6	6.9	215	7.2	12	7.6	1	2.6	9	9.0	335	6.6
Monday	248	16.5	40	18.3	13	14.9	512	17.0	21	13.4	8	21.1	21	21.0	863	16.9
Tuesday	292	19.5	29	13.3	9	10.3	496	16.5	27	17.2	4	10.5	19	19.0	876	17.2
Wednesday	253	16.9	31	14.2	14	16.1	493	16.4	24	15.3	9	23.7	7	7.0	831	16.3
Thursday	234	15.6	41	18.8	10	11.5	494	16.4	15	9.6	5	13.2	15	15.0	814	15.9
Friday	274	18.3	34	15.6	19	21.8	496	16.5	33	21.0	5	13.2	21	21.0	882	17.3
Saturday	125	8.3	24	11.0	16	18.4	299	10.0	25	15.9	6	15.8	8	8.0	503	9.9
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 2-4
Fatal Truck Involvements by Day Type and Truck Configuration
TIFA 2003

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	1301	86.8	175	80.3	65	74.7	2491	82.9	120	76.4	31	81.6	83	83.0	4266	83.6
Weekend	198	13.2	43	19.7	22	25.3	514	17.1	37	23.6	7	18.4	17	17.0	838	16.4
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	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 2003**

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	17	1.1	3	1.4	5	5.7	77	2.6	6	3.8	0	0.0	7	7.0	115	2.3
1:00 AM	12	0.8	2	0.9	4	4.6	97	3.2	9	5.7	1	2.6	3	3.0	128	2.5
2:00 AM	27	1.8	2	0.9	2	2.3	121	4.0	7	4.5	3	7.9	1	1.0	163	3.2
3:00 AM	26	1.7	2	0.9	4	4.6	100	3.3	9	5.7	2	5.3	1	1.0	144	2.8
4:00 AM	22	1.5	5	2.3	1	1.1	109	3.6	9	5.7	2	5.3	0	0.0	148	2.9
5:00 AM	58	3.9	2	0.9	3	3.4	123	4.1	14	8.9	3	7.9	3	3.0	206	4.0
6:00 AM	53	3.5	9	4.1	6	6.9	130	4.3	10	6.4	1	2.6	8	8.0	217	4.3
7:00 AM	88	5.9	14	6.4	6	6.9	137	4.6	6	3.8	2	5.3	5	5.0	258	5.1
8:00 AM	94	6.3	9	4.1	1	1.1	154	5.1	11	7.0	0	0.0	10	10.0	279	5.5
9:00 AM	99	6.6	10	4.6	4	4.6	129	4.3	4	2.5	0	0.0	5	5.0	251	4.9
10:00 AM	103	6.9	13	6.0	6	6.9	149	5.0	6	3.8	4	10.5	1	1.0	282	5.5
11:00 AM	115	7.7	10	4.6	1	1.1	137	4.6	4	2.5	4	10.5	7	7.0	278	5.4
Noon	106	7.1	21	9.6	8	9.2	164	5.5	3	1.9	1	2.6	8	8.0	311	6.1
1:00 PM	117	7.8	15	6.9	3	3.4	171	5.7	7	4.5	0	0.0	2	2.0	315	6.2
2:00 PM	115	7.7	15	6.9	4	4.6	186	6.2	6	3.8	0	0.0	10	10.0	336	6.6
3:00 PM	114	7.6	14	6.4	1	1.1	179	6.0	6	3.8	4	10.5	6	6.0	324	6.3
4:00 PM	85	5.7	14	6.4	3	3.4	153	5.1	3	1.9	3	7.9	7	7.0	268	5.3
5:00 PM	72	4.8	16	7.3	5	5.7	125	4.2	4	2.5	2	5.3	2	2.0	226	4.4
6:00 PM	49	3.3	9	4.1	3	3.4	97	3.2	6	3.8	3	7.9	5	5.0	172	3.4
7:00 PM	40	2.7	14	6.4	4	4.6	99	3.3	3	1.9	2	5.3	1	1.0	163	3.2
8:00 PM	27	1.8	6	2.8	3	3.4	97	3.2	7	4.5	0	0.0	3	3.0	143	2.8
9:00 PM	16	1.1	3	1.4	5	5.7	89	3.0	1	0.6	1	2.6	1	1.0	116	2.3
10:00 PM	16	1.1	1	0.5	3	3.4	85	2.8	5	3.2	0	0.0	2	2.0	112	2.2
11:00 PM	27	1.8	9	4.1	2	2.3	96	3.2	11	7.0	0	0.0	2	2.0	147	2.9
Unknown	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 2-6
Fatal Truck Involvements by Time of Accident and Day Type
TIFA 2003

Time of accident	Work week		Weekend		Total	
	No.	Pct.	No.	Pct.	No.	Pct.
Midnight	82	1.9	33	3.9	115	2.3
1:00 AM	92	2.2	36	4.3	128	2.5
2:00 AM	113	2.6	50	6.0	163	3.2
3:00 AM	106	2.5	38	4.5	144	2.8
4:00 AM	116	2.7	32	3.8	148	2.9
5:00 AM	165	3.9	41	4.9	206	4.0
6:00 AM	188	4.4	29	3.5	217	4.3
7:00 AM	230	5.4	28	3.3	258	5.1
8:00 AM	243	5.7	36	4.3	279	5.5
9:00 AM	221	5.2	30	3.6	251	4.9
10:00 AM	245	5.7	37	4.4	282	5.5
11:00 AM	243	5.7	35	4.2	278	5.4
Noon	276	6.5	35	4.2	311	6.1
1:00 PM	279	6.5	36	4.3	315	6.2
2:00 PM	302	7.1	34	4.1	336	6.6
3:00 PM	284	6.7	40	4.8	324	6.3
4:00 PM	228	5.3	40	4.8	268	5.3
5:00 PM	184	4.3	42	5.0	226	4.4
6:00 PM	133	3.1	39	4.7	172	3.4
7:00 PM	137	3.2	26	3.1	163	3.2
8:00 PM	106	2.5	37	4.4	143	2.8
9:00 PM	92	2.2	24	2.9	116	2.3
10:00 PM	84	2.0	28	3.3	112	2.2
11:00 PM	117	2.7	30	3.6	147	2.9
Unknown	0	0.0	2	0.2	2	0.0
Total	4266	100.0	838	100.0	5104	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 2003

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	553	36.9	72	33.0	32	36.8	817	27.2	46	29.3	20	52.6	55	55.0	1595	31.3
Rural	937	62.5	144	66.1	55	63.2	2161	71.9	110	70.1	18	47.4	45	45.0	3470	68.0
Unknown	9	0.6	2	0.9	0	0.0	27	0.9	1	0.6	0	0.0	0	0.0	39	0.8
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

**Table 2-8
Fatal Truck Involvements by Light Condition and Truck Configuration
TIFA 2003**

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	1135	75.7	156	71.6	46	52.9	1758	58.5	67	42.7	20	52.6	69	69.0	3251	63.7
Dark	179	11.9	43	19.7	21	24.1	868	28.9	62	39.5	12	31.6	12	12.0	1197	23.5
Dark but lighted	128	8.5	12	5.5	14	16.1	271	9.0	15	9.6	4	10.5	14	14.0	458	9.0
Dawn	41	2.7	3	1.4	3	3.4	75	2.5	12	7.6	2	5.3	5	5.0	141	2.8
Dusk	14	0.9	4	1.8	3	3.4	32	1.1	1	0.6	0	0.0	0	0.0	54	1.1
Unknown	2	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

**Table 2-9
Fatal Truck Involvements by Roadway Surface Condition and Truck Configuration
TIFA 2003**

Roadway surface condition	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.
Dry	1235	82.4	178	81.7	71	81.6	2405	80.0	126	80.3	29	76.3	87	87.0	4131	80.9
Wet	199	13.3	34	15.6	14	16.1	463	15.4	18	11.5	6	15.8	9	9.0	743	14.6
Snow or slush	36	2.4	5	2.3	2	2.3	65	2.2	6	3.8	2	5.3	2	2.0	118	2.3
Ice	22	1.5	1	0.5	0	0.0	65	2.2	7	4.5	1	2.6	2	2.0	98	1.9
Sand, dirt, oil	3	0.2	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Other	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	4	0.3	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	8	0.2
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

**Table 2-10
Fatal Truck Involvements by Weather Condition and Truck Configuration
TIFA 2003**

Weather condition	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.
Normal	1296	86.5	183	83.9	72	82.8	2498	83.1	134	85.4	32	84.2	92	92.0	4307	84.4
Rain	119	7.9	22	10.1	11	12.6	278	9.3	9	5.7	4	10.5	6	6.0	449	8.8
Sleet	4	0.3	0	0.0	0	0.0	14	0.5	0	0.0	2	5.3	0	0.0	20	0.4
Snow	39	2.6	4	1.8	2	2.3	94	3.1	8	5.1	0	0.0	2	2.0	149	2.9
Fog	25	1.7	5	2.3	2	2.3	74	2.5	6	3.8	0	0.0	0	0.0	112	2.2
Rain & fog	1	0.1	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Sleet & fog	1	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Other	9	0.6	4	1.8	0	0.0	37	1.2	0	0.0	0	0.0	0	0.0	50	1.0
Unknown	5	0.3	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	10	0.2
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Roadway distributions

Table 2-11
Fatal Truck Involvements by Roadway Function Class and Truck Configuration
TIFA 2003

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	95	6.3	23	10.6	10	11.5	363	12.1	19	12.1	6	15.8	9	9.0	525	10.3
Freeway/expressway	45	3.0	12	5.5	5	5.7	81	2.7	17	10.8	3	7.9	5	5.0	168	3.3
Other principal artery	171	11.4	18	8.3	8	9.2	225	7.5	5	3.2	5	13.2	19	19.0	451	8.8
Minor artery	132	8.8	13	6.0	5	5.7	79	2.6	3	1.9	3	7.9	10	10.0	245	4.8
Collector	25	1.7	3	1.4	0	0.0	21	0.7	1	0.6	1	2.6	6	6.0	57	1.1
Local street	81	5.4	3	1.4	3	3.4	45	1.5	1	0.6	2	5.3	6	6.0	141	2.8
Unknown urban	4	0.3	0	0.0	1	1.1	3	0.1	0	0.0	0	0.0	0	0.0	8	0.2
Total urban	553	36.9	72	33.0	32	36.8	817	27.2	46	29.3	20	52.6	55	55.0	1595	31.3
<i>Rural</i>																
Interstate	112	7.5	25	11.5	4	4.6	666	22.2	43	27.4	3	7.9	14	14.0	867	17.0
Other principal artery	260	17.3	48	22.0	19	21.8	743	24.7	35	22.3	7	18.4	5	5.0	1117	21.9
Minor artery	210	14.0	32	14.7	10	11.5	388	12.9	17	10.8	4	10.5	4	4.0	665	13.0
Major collector	204	13.6	23	10.6	14	16.1	256	8.5	11	7.0	3	7.9	9	9.0	520	10.2
Minor collector	41	2.7	6	2.8	1	1.1	47	1.6	2	1.3	0	0.0	6	6.0	103	2.0
Local road	104	6.9	10	4.6	6	6.9	58	1.9	2	1.3	1	2.6	7	7.0	188	3.7
Unknown rural	6	0.4	0	0.0	1	1.1	3	0.1	0	0.0	0	0.0	0	0.0	10	0.2
Total rural	937	62.5	144	66.1	55	63.2	2161	71.9	110	70.1	18	47.4	45	45.0	3470	68.0
<i>Unknown</i>	9	0.6	2	0.9	0	0.0	27	0.9	1	0.6	0	0.0	0	0.0	39	0.8
Total urban and rural	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 2-12
Fatal Truck Involvements by Route Signing and Truck Configuration
TIFA 2003

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	201	13.4	47	21.6	16	18.4	1019	33.9	64	40.8	8	21.1	22	22.0	1377	27.0
US highway	326	21.7	57	26.1	25	28.7	839	27.9	38	24.2	11	28.9	24	24.0	1320	25.9
State highway	484	32.3	59	27.1	19	21.8	800	26.6	34	21.7	12	31.6	25	25.0	1433	28.1
County road	203	13.5	37	17.0	14	16.1	140	4.7	16	10.2	3	7.9	17	17.0	430	8.4
Township	46	3.1	0	0.0	1	1.1	16	0.5	0	0.0	0	0.0	2	2.0	65	1.3
Municipality	160	10.7	11	5.0	9	10.3	88	2.9	4	2.5	3	7.9	8	8.0	283	5.5
Frontage road	3	0.2	1	0.5	1	1.1	16	0.5	0	0.0	0	0.0	0	0.0	21	0.4
Other	68	4.5	6	2.8	2	2.3	62	2.1	0	0.0	1	2.6	2	2.0	141	2.8
Unknown	8	0.5	0	0.0	0	0.0	25	0.8	1	0.6	0	0.0	0	0.0	34	0.7
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 2-13
Fatal Truck Involvements by Relation to Junction and Truck Configuration
TIFA 2003

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	921	61.4	134	61.5	52	59.8	2067	68.8	121	77.1	28	73.7	53	53.0	3376	66.1
Intersection	382	25.5	58	26.6	22	25.3	568	18.9	21	13.4	6	15.8	34	34.0	1091	21.4
Intersection related	80	5.3	9	4.1	6	6.9	109	3.6	4	2.5	1	2.6	3	3.0	212	4.2
Driveway, alley, etc.	12	0.8	2	0.9	2	2.3	41	1.4	2	1.3	1	2.6	2	2.0	62	1.2
Entrance/exit ramp	7	0.5	0	0.0	0	0.0	10	0.3	0	0.0	0	0.0	0	0.0	17	0.3
Rail grade crossing	10	0.7	0	0.0	1	1.1	8	0.3	0	0.0	1	2.6	0	0.0	20	0.4
In crossover	3	0.2	2	0.9	0	0.0	10	0.3	0	0.0	0	0.0	0	0.0	15	0.3
Direct access related	35	2.3	5	2.3	1	1.1	42	1.4	0	0.0	0	0.0	0	0.0	83	1.6
Unknown	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
<i>Interchange area</i>																
Intersection	9	0.6	0	0.0	0	0.0	14	0.5	1	0.6	0	0.0	2	2.0	26	0.5
Intersection related	8	0.5	0	0.0	0	0.0	12	0.4	1	0.6	0	0.0	0	0.0	21	0.4
Driveway, alley, etc	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Entrance/exit ramp	8	0.5	1	0.5	1	1.1	35	1.2	2	1.3	0	0.0	2	2.0	49	1.0
Other location	21	1.4	7	3.2	2	2.3	87	2.9	5	3.2	1	2.6	4	4.0	127	2.5
Unknown	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 2-14
Fatal Truck Involvements by Number of Travel Lanes and Truck Configuration
TIFA 2003

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	13	0.9	1	0.5	1	1.1	31	1.0	0	0.0	1	2.6	0	0.0	47	0.9
2	1113	74.2	167	76.6	56	64.4	2142	71.3	108	68.8	23	60.5	64	64.0	3673	72.0
3	120	8.0	18	8.3	6	6.9	320	10.6	25	15.9	5	13.2	14	14.0	508	10.0
4	177	11.8	23	10.6	17	19.5	399	13.3	17	10.8	6	15.8	20	20.0	659	12.9
5	21	1.4	5	2.3	3	3.4	33	1.1	0	0.0	0	0.0	1	1.0	63	1.2
6	31	2.1	4	1.8	3	3.4	42	1.4	1	0.6	3	7.9	1	1.0	85	1.7
7	6	0.4	0	0.0	1	1.1	13	0.4	5	3.2	0	0.0	0	0.0	25	0.5
9	18	1.2	0	0.0	0	0.0	25	0.8	1	0.6	0	0.0	0	0.0	44	0.9
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 2-15
Fatal Truck Involvements by Trafficway Flow and Truck Configuration
TIFA 2003

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	958	63.9	126	57.8	53	60.9	1394	46.4	66	42.0	17	44.7	46	46.0	2660	52.1
Median-no barrier	337	22.5	66	30.3	19	21.8	1107	36.8	51	32.5	10	26.3	36	36.0	1626	31.9
Median w/barrier	136	9.1	19	8.7	12	13.8	403	13.4	38	24.2	9	23.7	17	17.0	634	12.4
One way traffic	10	0.7	2	0.9	1	1.1	15	0.5	0	0.0	1	2.6	0	0.0	29	0.6
2-way, left turn median	34	2.3	4	1.8	1	1.1	38	1.3	1	0.6	1	2.6	1	1.0	80	1.6
Entrance/exit ramp	12	0.8	1	0.5	1	1.1	33	1.1	1	0.6	0	0.0	0	0.0	48	0.9
Unknown	12	0.8	0	0.0	0	0.0	15	0.5	0	0.0	0	0.0	0	0.0	27	0.5
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 2-16
Fatal Truck Involvements by Speed Limit and Truck Configuration
TIFA 2003

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	3	0.2	0	0.0	1	1.1	1	0.0	0	0.0	0	0.0	0	0.0	5	0.1
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
15	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	1	2.6	0	0.0	2	0.0
20	3	0.2	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	6	0.1
25	44	2.9	1	0.5	4	4.6	13	0.4	0	0.0	1	2.6	5	5.0	68	1.3
30	57	3.8	2	0.9	0	0.0	42	1.4	1	0.6	2	5.3	2	2.0	106	2.1
35	120	8.0	10	4.6	4	4.6	84	2.8	1	0.6	1	2.6	8	8.0	228	4.5
40	90	6.0	11	5.0	5	5.7	87	2.9	3	1.9	2	5.3	8	8.0	206	4.0
45	195	13.0	29	13.3	7	8.0	242	8.1	12	7.6	7	18.4	15	15.0	507	9.9
50	79	5.3	8	3.7	6	6.9	109	3.6	4	2.5	1	2.6	8	8.0	215	4.2
55	549	36.6	71	32.6	34	39.1	1062	35.3	61	38.9	11	28.9	32	32.0	1820	35.7
60	56	3.7	13	6.0	7	8.0	185	6.2	7	4.5	2	5.3	1	1.0	271	5.3
65	154	10.3	32	14.7	11	12.6	640	21.3	41	26.1	5	13.2	13	13.0	896	17.6
70	93	6.2	32	14.7	6	6.9	398	13.2	17	10.8	3	7.9	4	4.0	553	10.8
75	14	0.9	7	3.2	0	0.0	94	3.1	9	5.7	1	2.6	4	4.0	129	2.5
Unknown	42	2.8	2	0.9	2	2.3	44	1.5	1	0.6	1	2.6	0	0.0	92	1.8
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Accident description

Table 2-17
Fatal Truck Involvements by Accident Type and Truck Configuration
TIFA 2003

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	135	9.0	11	5.0	8	9.2	209	7.0	8	5.1	2	5.3	0	0.0	373	7.3
Hit object in road	163	10.9	14	6.4	9	10.3	199	6.6	12	7.6	5	13.2	3	3.0	405	7.9
<i>Same direction, same trafficway</i>																
Rearend, truck striking	59	3.9	10	4.6	1	1.1	208	6.9	13	8.3	1	2.6	0	0.0	292	5.7
Rearend, truck struck	128	8.5	21	9.6	8	9.2	281	9.4	16	10.2	3	7.9	0	0.0	457	9.0
Sideswipe, in other's lane	7	0.5	2	0.9	0	0.0	31	1.0	0	0.0	1	2.6	0	0.0	41	0.8
Sideswipe, in truck's lane	18	1.2	4	1.8	3	3.4	106	3.5	8	5.1	2	5.3	0	0.0	141	2.8
<i>Opposite direction, same trafficway</i>																
Head-on, in other's lane	34	2.3	6	2.8	1	1.1	37	1.2	0	0.0	0	0.0	0	0.0	78	1.5
Head-on, in truck's lane	171	11.4	21	9.6	10	11.5	333	11.1	17	10.8	6	15.8	0	0.0	558	10.9
Sideswipe, in other's lane	39	2.6	3	1.4	3	3.4	60	2.0	1	0.6	1	2.6	0	0.0	107	2.1
Sideswipe, in truck's lane	157	10.5	26	11.9	7	8.0	364	12.1	23	14.6	4	10.5	0	0.0	581	11.4
<i>Change trafficway, one vehicle turning</i>																
Truck turn across path	55	3.7	9	4.1	1	1.1	100	3.3	2	1.3	1	2.6	0	0.0	168	3.3
Other turn across path	125	8.3	21	9.6	7	8.0	165	5.5	2	1.3	3	7.9	0	0.0	323	6.3
<i>Intersecting paths, both going straight</i>																
Truck into side of other	147	9.8	19	8.7	9	10.3	230	7.7	13	8.3	2	5.3	0	0.0	420	8.2
Other into side of truck	38	2.5	10	4.6	4	4.6	108	3.6	7	4.5	0	0.0	0	0.0	167	3.3
<i>Other accident types</i>																
Truck backed into other	12	0.8	0	0.0	0	0.0	17	0.6	0	0.0	0	0.0	0	0.0	29	0.6
Other backed into truck	0	0.0	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	5	0.1
Untripped roll	12	0.8	0	0.0	1	1.1	26	0.9	1	0.6	0	0.0	0	0.0	40	0.8
Other	178	11.9	40	18.3	13	14.9	445	14.8	30	19.1	6	15.8	2	2.0	714	14.0
Unknown	21	1.4	1	0.5	2	2.3	81	2.7	4	2.5	1	2.6	95	95.0	205	4.0
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 2-18
Fatal Truck Involvements by First Harmful Event and Truck Configuration
TIFA 2003

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	74	4.9	3	1.4	3	3.4	123	4.1	5	3.2	0	0.0	1	1.0	209	4.1
Fell from vehicle	18	1.2	2	0.9	1	1.1	1	0.0	0	0.0	0	0.0	0	0.0	22	0.4
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	3	0.2	1	0.5	1	1.1	12	0.4	0	0.0	1	2.6	0	0.0	18	0.4
Thrown or falling object	1	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Pavement surface irregular	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Occ. struck/run over by own veh.	2	0.1	2	0.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1
<i>Collision with nonfixed object</i>																
Pedestrian	134	8.9	9	4.1	3	3.4	148	4.9	11	7.0	3	7.9	9	9.0	317	6.2
Pedalcycle	19	1.3	4	1.8	3	3.4	30	1.0	0	0.0	0	0.0	2	2.0	58	1.1
Railway train	9	0.6	0	0.0	1	1.1	6	0.2	0	0.0	1	2.6	0	0.0	17	0.3
Animal	1	0.1	0	0.0	1	1.1	6	0.2	1	0.6	0	0.0	0	0.0	9	0.2
Motor vehicle in transport	1070	71.4	174	79.8	65	74.7	2299	76.6	124	79.0	26	68.4	79	79.0	3837	75.2
Veh. in transport - other roadway	30	2.0	8	3.7	1	1.1	99	3.3	3	1.9	3	7.9	3	3.0	147	2.9
Parked motor vehicle	11	0.7	3	1.4	0	0.0	22	0.7	1	0.6	2	5.3	0	0.0	39	0.8
Other type - nonmotorist	1	0.1	0	0.0	0	0.0	3	0.1	1	0.6	0	0.0	0	0.0	5	0.1
Other object - not fixed	3	0.2	2	0.9	1	1.1	9	0.3	2	1.3	0	0.0	1	1.0	18	0.4
Transport device used as equip	5	0.3	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	6	0.1
Ridden animal/conveyance	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
<i>Collision with fixed object</i>																
Boulder	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Building	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Impact attenuator	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Bridge pier or abutment	4	0.3	1	0.5	0	0.0	10	0.3	0	0.0	0	0.0	0	0.0	15	0.3
Bridge parapet end	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 rail	1	0.1	0	0.0	0	0.0	15	0.5	1	0.6	0	0.0	0	0.0	17	0.3
Guardrail	25	1.7	1	0.5	2	2.3	80	2.7	1	0.6	1	2.6	0	0.0	110	2.2
Concrete traffic barrier	8	0.5	1	0.5	1	1.1	27	0.9	1	0.6	1	2.6	0	0.0	39	0.8
Other longitudinal barrier type	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Highway/traffic sign post	6	0.4	0	0.0	0	0.0	17	0.6	1	0.6	0	0.0	0	0.0	24	0.5
Luminaire/light support	2	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Utility pole	5	0.3	0	0.0	1	1.1	6	0.2	0	0.0	0	0.0	0	0.0	12	0.2
Other post, pole or supports	0	0.0	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Culvert	6	0.4	0	0.0	0	0.0	7	0.2	0	0.0	0	0.0	1	1.0	14	0.3
Curb	7	0.5	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	12	0.2
Ditch	6	0.4	1	0.5	0	0.0	7	0.2	1	0.6	0	0.0	1	1.0	16	0.3
Embankment - earth	3	0.2	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	2	2.0	10	0.2
Embankment - rock,stone,etc.	1	0.1	0	0.0	1	1.1	2	0.1	1	0.6	0	0.0	0	0.0	5	0.1
Embankment - type unknown	3	0.2	1	0.5	1	1.1	5	0.2	1	0.6	0	0.0	0	0.0	11	0.2
Fence	6	0.4	1	0.5	0	0.0	5	0.2	1	0.6	0	0.0	0	0.0	13	0.3
Wall	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Tree	25	1.7	3	1.4	1	1.1	25	0.8	1	0.6	0	0.0	1	1.0	56	1.1
Other fixed object	5	0.3	1	0.5	0	0.0	9	0.3	0	0.0	0	0.0	0	0.0	15	0.3
Snowbank	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Bridge overhead structure	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	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

**Table 2-19
Fatal Truck Involvements by Vehicle Role in Accident and Truck Configuration
TIFA 2003**

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	63	4.2	4	1.8	4	4.6	78	2.6	2	1.3	0	0.0	1	1.0	152	3.0
Striking	805	53.7	117	53.7	48	55.2	1504	50.0	70	44.6	18	47.4	60	60.0	2622	51.4
Struck	579	38.6	84	38.5	34	39.1	1301	43.3	78	49.7	17	44.7	33	33.0	2126	41.7
Both	49	3.3	13	6.0	1	1.1	118	3.9	7	4.5	3	7.9	6	6.0	197	3.9
Unknown	3	0.2	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	7	0.1
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

**Table 2-20
Fatal Truck Involvements by Manner of Collision and Truck Configuration
TIFA 2003**

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	397	26.5	36	16.5	21	24.1	605	20.1	30	19.1	9	23.7	18	18.0	1116	21.9
Rear-end	240	16.0	43	19.7	15	17.2	637	21.2	38	24.2	6	15.8	26	26.0	1005	19.7
Head-on	244	16.3	38	17.4	12	13.8	478	15.9	26	16.6	4	10.5	18	18.0	820	16.1
Front-to-side: same direction	23	1.5	7	3.2	3	3.4	86	2.9	4	2.5	2	5.3	5	5.0	130	2.5
Front-to-side: opp direction	204	13.6	32	14.7	12	13.8	389	12.9	16	10.2	4	10.5	12	12.0	669	13.1
Front-to-side: right angle	281	18.7	46	21.1	16	18.4	552	18.4	29	18.5	6	15.8	16	16.0	946	18.5
Front-to-side: other	19	1.3	1	0.5	4	4.6	22	0.7	0	0.0	0	0.0	1	1.0	47	0.9
Sideswipe: same direction	31	2.1	3	1.4	3	3.4	96	3.2	8	5.1	2	5.3	3	3.0	146	2.9
Sideswipe: opp direction	40	2.7	6	2.8	1	1.1	102	3.4	6	3.8	3	7.9	0	0.0	158	3.1
Rear-to-side	9	0.6	2	0.9	0	0.0	12	0.4	0	0.0	0	0.0	0	0.0	23	0.5
Other	3	0.2	4	1.8	0	0.0	13	0.4	0	0.0	1	2.6	0	0.0	21	0.4
Unknown	8	0.5	0	0.0	0	0.0	13	0.4	0	0.0	1	2.6	1	1.0	23	0.5
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

**Table 2-21
Fatal Truck Involvements by Rollover Status and Truck Configuration
TIFA 2003**

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	1277	85.2	201	92.2	79	90.8	2632	87.6	135	86.0	34	89.5	96	96.0	4454	87.3
First event	71	4.7	2	0.9	2	2.3	110	3.7	4	2.5	0	0.0	1	1.0	190	3.7
Subsequent event	151	10.1	15	6.9	6	6.9	263	8.8	18	11.5	4	10.5	3	3.0	460	9.0
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 2-22
Fatal Truck Involvements by Jackknife Status and Truck Configuration
TIFA 2003

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	1499	100.0	216	99.1	87	100.0	2799	93.1	142	90.4	37	97.4	97	97.0	4877	95.6
First event	0	0.0	0	0.0	0	0.0	59	2.0	1	0.6	0	0.0	2	2.0	62	1.2
Subsequent event	0	0.0	2	0.9	0	0.0	147	4.9	14	8.9	1	2.6	1	1.0	165	3.2
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 2-23
Fatal Truck Involvements by Fire Occurrence and Truck Configuration
TIFA 2003

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	1457	97.2	213	97.7	86	98.9	2814	93.6	149	94.9	37	97.4	100	100.0	4856	95.1
Fire in vehicle	42	2.8	5	2.3	1	1.1	191	6.4	8	5.1	1	2.6	0	0.0	248	4.9
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 2-24
Fatal Truck Involvements by Cargo Spillage and Truck Configuration
TIFA 2003

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	1192	79.5	173	79.4	2	2.3	2455	81.7	125	79.6	27	71.1	3	3.0	3977	77.9
Nonhazardous	212	14.1	32	14.7	2	2.3	411	13.7	25	15.9	7	18.4	0	0.0	689	13.5
Hazardous	13	0.9	2	0.9	0	0.0	36	1.2	1	0.6	1	2.6	0	0.0	53	1.0
Unknown	82	5.5	11	5.0	83	95.4	103	3.4	6	3.8	3	7.9	97	97.0	385	7.5
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Vehicle

This section provides statistics that describe the physical configuration of trucks involved in a fatal accident in 2003. 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 5,104 trucks involved in a fatal accident in 2003, there were 3,005 tractor-semitrailers, 1,499 straight trucks with no trailer, 218 straight trucks pulling a trailer, 87 bobtail tractors, and 157 tractors pulling two trailers.

- Straight trucks with no trailer represented 29.4% of all trucks involved in a fatal accident.
- Tractor-semitrailers accounted for 58.9% of the trucks.
- Over half of the tractor-semitrailers pulled a van trailer - either a dry box van or a refrigerated van.
- 22.1% of the straight trucks had dump bodies. The next most common straight truck cargo body was a van body, with 20.4%.
- 30.2% of the trucks were empty, 20.3% were carrying general freight, and 13.6% were carrying solids in bulk (gravel, soil, etc.) at the time of the accident.
- 8 trucks, all combination vehicles, were longer than 100 feet; 46 weighed more than 100,000 pounds.
- 73.3% of the trucks involved in a fatal accident were Class 8, the heaviest Gross Vehicle Weight Rating (GVWR) class.
- 46.8% of the trucks were operated by interstate for-hire carriers, 16.2% by interstate private carriers, and 16.6% by intrastate private carriers.
- 33.6% 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 2003**

Configuration	No.	Pct.
<i>Straight trucks</i>		
Straight truck only	1499	29.4
<i>Straight truck, 1 trailer</i>		
Straight + full trailer	37	0.7
Straight + other	122	2.4
Straight + other, gooseneck hitch	59	1.2
<i>Subtotal</i>	218	4.3
<i>Other straight combinations</i>		
Wrecker + tow	19	0.4
Straight, unknown if pulling trailer	4	0.1
Straight + 2 saddle mount straights	1	0.0
<i>Subtotal</i>	24	0.5
<i>Total straight trucks</i>	1741	34.1
<i>Tractor combinations</i>		
<i>Tractor, no trailers</i>		
Bobtail tractor	83	1.6
Tractor carrying cargo	4	0.1
<i>Subtotal</i>	87	1.7
<i>Tractor, 1 trailer</i>		
Tractor and semitrailer	3005	58.9
Tractor + other (nonsemitrailer)	8	0.2
Tractor + semitrailer + A dolly	1	0.0
Tractor + full trailer	1	0.0
<i>Subtotal</i>	3015	59.1
<i>Tractor, 2 trailers</i>		
Double with A dolly	99	1.9
Double, B train	3	0.1
Double with unknown dolly	2	0.0
Tractor + semitrailer + full trailer	51	1.0
Tractor + semitrailer + unknown	2	0.0
<i>Subtotal</i>	157	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 + 2 saddle mount tractors	1	0.0
<i>Subtotal</i>	3	0.1
<i>Total tractors</i>	3263	63.9
<i>Unknown</i>	100	2.0
Grand total	5104	100.0

Table 3-2
Fatal Truck Involvements by Cargo Body Style and Truck Configuration
TIFA 2003

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	87	100.0	0	0.0	0	0.0	0	0.0	0	0.0	87	1.7
Van	306	20.4	13	6.0	0	0.0	1210	40.3	93	59.2	2	5.3	0	0.0	1624	31.8
Open top van	2	0.1	0	0.0	0	0.0	48	1.6	1	0.6	0	0.0	0	0.0	51	1.0
Refrigerated van	41	2.7	0	0.0	0	0.0	408	13.6	3	1.9	0	0.0	0	0.0	452	8.9
Livestock carrier	6	0.4	0	0.0	0	0.0	40	1.3	0	0.0	0	0.0	0	0.0	46	0.9
Flatbed	98	6.5	33	15.1	0	0.0	413	13.7	16	10.2	2	5.3	0	0.0	562	11.0
Lowboy	0	0.0	0	0.0	0	0.0	49	1.6	0	0.0	2	5.3	0	0.0	51	1.0
Flatbed with equip.	39	2.6	3	1.4	0	0.0	8	0.3	1	0.6	0	0.0	0	0.0	51	1.0
Flatbed with sides	44	2.9	5	2.3	0	0.0	29	1.0	1	0.6	0	0.0	0	0.0	79	1.5
Pole/logging	11	0.7	5	2.3	0	0.0	79	2.6	1	0.6	0	0.0	0	0.0	96	1.9
Tank:liquid/gaseous	70	4.7	9	4.1	0	0.0	236	7.9	2	1.3	0	0.0	0	0.0	317	6.2
Tank:dry bulk	1	0.1	0	0.0	0	0.0	43	1.4	4	2.5	0	0.0	0	0.0	48	0.9
Auto carrier	0	0.0	16	7.3	0	0.0	15	0.5	0	0.0	0	0.0	0	0.0	31	0.6
Dump	332	22.1	37	17.0	0	0.0	242	8.1	5	3.2	0	0.0	0	0.0	616	12.1
Hopper bottom	2	0.1	0	0.0	0	0.0	91	3.0	26	16.6	0	0.0	0	0.0	119	2.3
Refuse	132	8.8	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	137	2.7
Other	388	25.9	95	43.6	0	0.0	38	1.3	2	1.3	31	81.6	0	0.0	554	10.9
Unknown	27	1.8	2	0.9	0	0.0	51	1.7	2	1.3	1	2.6	100	100.0	183	3.6
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 3-3
Fatal Truck Involvements by Type of Cargo and Truck Configuration
TIFA 2003

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	521	34.8	122	56.0	83	95.4	781	26.0	32	20.4	3	7.9	0	0.0	1542	30.2
General freight	150	10.0	1	0.5	0	0.0	801	26.7	82	52.2	2	5.3	0	0.0	1036	20.3
Household goods	28	1.9	10	4.6	0	0.0	19	0.6	0	0.0	0	0.0	0	0.0	57	1.1
Building materials	21	1.4	3	1.4	0	0.0	34	1.1	0	0.0	0	0.0	0	0.0	58	1.1
Metal (coils, sheets)	6	0.4	0	0.0	0	0.0	98	3.3	1	0.6	0	0.0	0	0.0	105	2.1
Heavy machinery	9	0.6	0	0.0	0	0.0	56	1.9	0	0.0	2	5.3	0	0.0	67	1.3
Large objects	13	0.9	4	1.8	0	0.0	53	1.8	2	1.3	0	0.0	0	0.0	72	1.4
Motor vehicles	15	1.0	10	4.6	0	0.0	10	0.3	1	0.6	1	2.6	0	0.0	37	0.7
Piggyback/towaway	0	0.0	0	0.0	4	4.6	0	0.0	0	0.0	19	50.0	0	0.0	23	0.5
Gases in bulk	6	0.4	0	0.0	0	0.0	15	0.5	0	0.0	0	0.0	0	0.0	21	0.4
Solids in bulk	332	22.1	16	7.3	0	0.0	323	10.7	22	14.0	1	2.6	0	0.0	694	13.6
Liquids in bulk	58	3.9	6	2.8	0	0.0	134	4.5	0	0.0	0	0.0	0	0.0	198	3.9
Explosives	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Logs/poles/lumber	29	1.9	3	1.4	0	0.0	121	4.0	6	3.8	0	0.0	0	0.0	159	3.1
Refrigerated foods	28	1.9	0	0.0	0	0.0	273	9.1	2	1.3	0	0.0	0	0.0	303	5.9
Mobile home	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	4	10.5	0	0.0	5	0.1
Farm products	16	1.1	0	0.0	0	0.0	71	2.4	2	1.3	0	0.0	0	0.0	89	1.7
Live animals	4	0.3	0	0.0	0	0.0	22	0.7	0	0.0	0	0.0	0	0.0	26	0.5
Other	167	11.1	20	9.2	0	0.0	15	0.5	0	0.0	1	2.6	0	0.0	203	4.0
Cargo, unk. type	2	0.1	0	0.0	0	0.0	16	0.5	0	0.0	0	0.0	0	0.0	18	0.4
Saddlemount tractor	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.6	0	0.0	1	0.0
Unknown	93	6.2	23	10.6	0	0.0	161	5.4	7	4.5	4	10.5	100	100.0	388	7.6
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

**Table 3-4
Fatal Truck Involvements by Cab Style and Truck Configuration
TIFA 2003**

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	1281	85.5	206	94.5	76	87.4	2886	96.0	143	91.1	37	97.4	2	2.0	4631	90.7
Cabover or cab-forward	215	14.3	12	5.5	11	12.6	97	3.2	13	8.3	1	2.6	0	0.0	349	6.8
Unknown	3	0.2	0	0.0	0	0.0	22	0.7	1	0.6	0	0.0	98	98.0	124	2.4
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

**Table 3-5
Fatal Truck Involvements by Cab Style and Power Unit Model Year
TIFA 2003**

Power unit model year	Conventional		Cabover		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
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
1966	1	0.0	1	0.3	0	0.0	2	0.0
1967	1	0.0	0	0.0	0	0.0	1	0.0
1969	4	0.1	0	0.0	0	0.0	4	0.1
1970	2	0.0	1	0.3	0	0.0	3	0.1
1971	1	0.0	1	0.3	0	0.0	2	0.0
1972	2	0.0	0	0.0	0	0.0	2	0.0
1973	6	0.1	1	0.3	0	0.0	7	0.1
1974	6	0.1	1	0.3	1	0.8	8	0.2
1975	2	0.0	1	0.3	0	0.0	3	0.1
1976	10	0.2	0	0.0	0	0.0	10	0.2
1977	7	0.2	0	0.0	0	0.0	7	0.1
1978	9	0.2	0	0.0	0	0.0	9	0.2
1979	23	0.5	5	1.4	0	0.0	28	0.5
1980	17	0.4	2	0.6	0	0.0	19	0.4
1981	14	0.3	3	0.9	0	0.0	17	0.3
1982	17	0.4	2	0.6	0	0.0	19	0.4
1983	14	0.3	3	0.9	0	0.0	17	0.3
1984	32	0.7	4	1.1	0	0.0	36	0.7
1985	39	0.8	12	3.4	0	0.0	51	1.0
1986	46	1.0	5	1.4	0	0.0	51	1.0
1987	58	1.3	7	2.0	0	0.0	65	1.3
1988	94	2.0	21	6.0	0	0.0	115	2.3
1989	79	1.7	11	3.2	1	0.8	91	1.8
1990	91	2.0	10	2.9	1	0.8	102	2.0
1991	86	1.9	5	1.4	0	0.0	91	1.8
1992	87	1.9	15	4.3	1	0.8	103	2.0
1993	137	3.0	16	4.6	0	0.0	153	3.0
1994	219	4.7	22	6.3	0	0.0	241	4.7
1995	278	6.0	37	10.6	0	0.0	315	6.2
1996	293	6.3	14	4.0	2	1.6	309	6.1
1997	297	6.4	16	4.6	0	0.0	313	6.1
1998	370	8.0	16	4.6	0	0.0	386	7.6
1999	516	11.1	26	7.4	1	0.8	543	10.6
2000	589	12.7	29	8.3	1	0.8	619	12.1
2001	459	9.9	24	6.9	0	0.0	483	9.5
2002	291	6.3	15	4.3	0	0.0	306	6.0
2003	350	7.6	19	5.4	1	0.8	370	7.2
2004	81	1.7	4	1.1	0	0.0	85	1.7
Unknown	1	0.0	0	0.0	115	92.7	116	2.3
Total	4631	100.0	349	100.0	124	100.0	5104	100.0

Table 3-6
Fatal Truck Involvements by Power Unit Model Year and Truck Configuration
TIFA 2003

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.
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	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
1966	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	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
1969	2	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	4	0.1
1970	3	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
1971	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
1972	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
1973	3	0.2	1	0.5	0	0.0	2	0.1	0	0.0	1	2.6	0	0.0	7	0.1
1974	6	0.4	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	8	0.2
1975	2	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
1976	9	0.6	0	0.0	0	0.0	0	0.0	0	0.0	1	2.6	0	0.0	10	0.2
1977	5	0.3	1	0.5	0	0.0	0	0.0	1	0.6	0	0.0	0	0.0	7	0.1
1978	6	0.4	1	0.5	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	9	0.2
1979	14	0.9	2	0.9	1	1.1	7	0.2	3	1.9	1	2.6	0	0.0	28	0.5
1980	10	0.7	2	0.9	0	0.0	6	0.2	0	0.0	1	2.6	0	0.0	19	0.4
1981	9	0.6	1	0.5	0	0.0	7	0.2	0	0.0	0	0.0	0	0.0	17	0.3
1982	9	0.6	1	0.5	1	1.1	7	0.2	1	0.6	0	0.0	0	0.0	19	0.4
1983	8	0.5	3	1.4	0	0.0	5	0.2	1	0.6	0	0.0	0	0.0	17	0.3
1984	12	0.8	0	0.0	1	1.1	21	0.7	0	0.0	2	5.3	0	0.0	36	0.7
1985	23	1.5	2	0.9	4	4.6	19	0.6	3	1.9	0	0.0	0	0.0	51	1.0
1986	27	1.8	2	0.9	1	1.1	18	0.6	2	1.3	1	2.6	0	0.0	51	1.0
1987	27	1.8	4	1.8	1	1.1	32	1.1	1	0.6	0	0.0	0	0.0	65	1.3
1988	52	3.5	5	2.3	2	2.3	53	1.8	2	1.3	1	2.6	0	0.0	115	2.3
1989	31	2.1	4	1.8	1	1.1	50	1.7	4	2.5	1	2.6	0	0.0	91	1.8
1990	45	3.0	1	0.5	2	2.3	47	1.6	6	3.8	1	2.6	0	0.0	102	2.0
1991	40	2.7	4	1.8	2	2.3	45	1.5	0	0.0	0	0.0	0	0.0	91	1.8
1992	40	2.7	2	0.9	3	3.4	56	1.9	2	1.3	0	0.0	0	0.0	103	2.0
1993	49	3.3	6	2.8	6	6.9	85	2.8	7	4.5	0	0.0	0	0.0	153	3.0
1994	64	4.3	8	3.7	6	6.9	156	5.2	4	2.5	3	7.9	0	0.0	241	4.7
1995	89	5.9	10	4.6	4	4.6	202	6.7	8	5.1	2	5.3	0	0.0	315	6.2
1996	73	4.9	5	2.3	7	8.0	211	7.0	10	6.4	2	5.3	1	1.0	309	6.1
1997	91	6.1	12	5.5	7	8.0	198	6.6	5	3.2	0	0.0	0	0.0	313	6.1
1998	100	6.7	15	6.9	11	12.6	250	8.3	6	3.8	3	7.9	1	1.0	386	7.6
1999	166	11.1	20	9.2	9	10.3	332	11.0	12	7.6	4	10.5	0	0.0	543	10.6
2000	149	9.9	30	13.8	6	6.9	406	13.5	25	15.9	3	7.9	0	0.0	619	12.1
2001	130	8.7	30	13.8	5	5.7	299	10.0	13	8.3	5	13.2	1	1.0	483	9.5
2002	81	5.4	22	10.1	3	3.4	179	6.0	19	12.1	2	5.3	0	0.0	306	6.0
2003	98	6.5	23	10.6	3	3.4	226	7.5	17	10.8	3	7.9	0	0.0	370	7.2
2004	14	0.9	1	0.5	1	1.1	64	2.1	4	2.5	1	2.6	0	0.0	85	1.7
Unknown	3	0.2	0	0.0	0	0.0	15	0.5	1	0.6	0	0.0	97	97.0	116	2.3
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

**Table 3-7
Fatal Truck Involvements by Truck Length and Truck Configuration
TIFA 2003**

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	231	15.4	0	0.0	12	13.8	0	0.0	0	0.0	0	0.0	0	0.0	243	4.8
21-25	462	30.8	0	0.0	48	55.2	1	0.0	0	0.0	0	0.0	0	0.0	511	10.0
26-30	407	27.2	3	1.4	25	28.7	0	0.0	0	0.0	0	0.0	0	0.0	435	8.5
31-35	241	16.1	12	5.5	1	1.1	0	0.0	0	0.0	1	2.6	0	0.0	255	5.0
36-40	52	3.5	34	15.6	1	1.1	29	1.0	0	0.0	6	15.8	0	0.0	122	2.4
41-45	6	0.4	30	13.8	0	0.0	56	1.9	0	0.0	2	5.3	0	0.0	94	1.8
46-50	4	0.3	33	15.1	0	0.0	52	1.7	0	0.0	3	7.9	0	0.0	92	1.8
51-55	0	0.0	25	11.5	0	0.0	152	5.1	1	0.6	1	2.6	0	0.0	179	3.5
56-60	0	0.0	16	7.3	0	0.0	390	13.0	4	2.5	3	7.9	0	0.0	413	8.1
61-65	0	0.0	14	6.4	0	0.0	764	25.4	17	10.8	1	2.6	0	0.0	796	15.6
66-70	0	0.0	10	4.6	0	0.0	921	30.6	11	7.0	2	5.3	0	0.0	944	18.5
71-75	0	0.0	14	6.4	0	0.0	452	15.0	75	47.8	3	7.9	0	0.0	544	10.7
76-80	0	0.0	2	0.9	0	0.0	24	0.8	21	13.4	0	0.0	0	0.0	47	0.9
81-85	0	0.0	1	0.5	0	0.0	2	0.1	4	2.5	2	5.3	0	0.0	9	0.2
86-90	0	0.0	0	0.0	0	0.0	2	0.1	4	2.5	2	5.3	0	0.0	8	0.2
91-95	0	0.0	0	0.0	0	0.0	0	0.0	4	2.5	1	2.6	0	0.0	5	0.1
96-100	0	0.0	0	0.0	0	0.0	0	0.0	6	3.8	0	0.0	0	0.0	6	0.1
101 +	0	0.0	0	0.0	0	0.0	0	0.0	5	3.2	2	5.3	1	1.0	8	0.2
Unknown	93	6.2	24	11.0	0	0.0	160	5.3	5	3.2	9	23.7	99	99.0	390	7.6
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 3-8
Fatal Truck Involvements by Gross Combination Weight and Truck Configuration
TIFA 2003

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	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
5,001-10,000	261	17.4	8	3.7	2	2.3	0	0.0	0	0.0	0	0.0	0	0.0	271	5.3
10,001-15,000	261	17.4	43	19.7	20	23.0	0	0.0	0	0.0	5	13.2	0	0.0	329	6.4
15,001-20,000	148	9.9	29	13.3	58	66.7	5	0.2	0	0.0	4	10.5	0	0.0	244	4.8
20,001-25,000	140	9.3	17	7.8	3	3.4	41	1.4	0	0.0	3	7.9	0	0.0	204	4.0
25,001-30,000	131	8.7	15	6.9	2	2.3	402	13.4	7	4.5	3	7.9	0	0.0	560	11.0
30,001-35,000	68	4.5	10	4.6	0	0.0	359	11.9	9	5.7	2	5.3	0	0.0	448	8.8
35,001-40,000	42	2.8	3	1.4	0	0.0	138	4.6	8	5.1	2	5.3	0	0.0	193	3.8
40,001-45,000	30	2.0	8	3.7	0	0.0	101	3.4	9	5.7	1	2.6	0	0.0	149	2.9
45,001-50,000	30	2.0	3	1.4	0	0.0	96	3.2	8	5.1	1	2.6	0	0.0	138	2.7
50,001-55,000	33	2.2	1	0.5	0	0.0	108	3.6	9	5.7	2	5.3	0	0.0	153	3.0
55,001-60,000	32	2.1	0	0.0	0	0.0	108	3.6	13	8.3	0	0.0	0	0.0	153	3.0
60,001-65,000	27	1.8	0	0.0	0	0.0	112	3.7	16	10.2	1	2.6	0	0.0	156	3.1
65,001-70,000	22	1.5	5	2.3	0	0.0	194	6.5	6	3.8	0	0.0	0	0.0	227	4.4
70,001-75,000	21	1.4	5	2.3	0	0.0	293	9.8	10	6.4	2	5.3	0	0.0	331	6.5
75,001-80,000	7	0.5	8	3.7	0	0.0	514	17.1	17	10.8	0	0.0	0	0.0	546	10.7
80,001-85,000	0	0.0	0	0.0	0	0.0	59	2.0	1	0.6	0	0.0	0	0.0	60	1.2
85,001-90,000	4	0.3	1	0.5	0	0.0	17	0.6	1	0.6	0	0.0	0	0.0	23	0.5
90,001-95,000	1	0.1	0	0.0	0	0.0	10	0.3	0	0.0	0	0.0	0	0.0	11	0.2
95,001-100,000	0	0.0	1	0.5	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	6	0.1
100,001-110,000	1	0.1	3	1.4	0	0.0	9	0.3	5	3.2	0	0.0	0	0.0	18	0.4
110,001-120,000	0	0.0	1	0.5	0	0.0	3	0.1	2	1.3	0	0.0	0	0.0	6	0.1
120,001-130,000	1	0.1	0	0.0	0	0.0	3	0.1	3	1.9	0	0.0	0	0.0	7	0.1
130,001-140,000	0	0.0	0	0.0	0	0.0	4	0.1	1	0.6	0	0.0	0	0.0	5	0.1
140,001-150,000	0	0.0	0	0.0	0	0.0	1	0.0	2	1.3	0	0.0	0	0.0	3	0.1
150,001-160,000	0	0.0	0	0.0	0	0.0	1	0.0	1	0.6	0	0.0	0	0.0	2	0.0
160,001-170,000	0	0.0	0	0.0	0	0.0	1	0.0	1	0.6	0	0.0	0	0.0	2	0.0
170,001 and over	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	1	2.6	1	1.0	3	0.1
Unknown	238	15.9	57	26.1	2	2.3	420	14.0	28	17.8	11	28.9	99	99.0	855	16.8
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 3-9
Fatal Truck Involvements by Gross Vehicle Weight Rating and Truck Configuration
TIFA 2003

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	286	19.1	104	47.7	0	0.0	0	0.0	0	0.0	4	10.5	0	0.0	394	7.7
Class 4: 14,001-16,000	106	7.1	14	6.4	0	0.0	0	0.0	0	0.0	5	13.2	0	0.0	125	2.4
Class 5: 16,001-19,500	66	4.4	5	2.3	0	0.0	0	0.0	0	0.0	2	5.3	0	0.0	73	1.4
Class 6: 19,501-26,000	227	15.1	20	9.2	0	0.0	3	0.1	0	0.0	7	18.4	0	0.0	257	5.0
Class 7: 26,001-33,000	195	13.0	11	5.0	9	10.3	88	2.9	56	35.7	4	10.5	0	0.0	363	7.1
Class 8: 33,001 or more	596	39.8	62	28.4	77	88.5	2895	96.3	95	60.5	15	39.5	2	2.0	3742	73.3
Unknown	23	1.5	2	0.9	1	1.1	19	0.6	6	3.8	1	2.6	98	98.0	150	2.9
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	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 2003

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	304	20.3	54	24.8	14	16.1	434	14.4	15	9.6	5	13.2	1	1.0	827	16.2
Interstate for-hire	136	9.1	32	14.7	49	56.3	2060	68.6	99	63.1	12	31.6	1	1.0	2389	46.8
Intrastate private	562	37.5	77	35.3	4	4.6	185	6.2	13	8.3	8	21.1	0	0.0	849	16.6
Intrastate for-hire	219	14.6	16	7.3	12	13.8	199	6.6	21	13.4	9	23.7	0	0.0	476	9.3
Government owned	76	5.1	5	2.3	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	85	1.7
Daily rental	26	1.7	8	3.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	34	0.7
Unknown	176	11.7	26	11.9	8	9.2	123	4.1	9	5.7	4	10.5	98	98.0	444	8.7
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 3-11
Fatal Truck Involvements by Trip Type and Truck Configuration
TIFA 2003

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	974	65.0	102	46.8	45	51.7	539	17.9	29	18.5	25	65.8	0	0.0	1714	33.6
51-100 miles	183	12.2	23	10.6	16	18.4	402	13.4	18	11.5	2	5.3	0	0.0	644	12.6
101-200	74	4.9	23	10.6	2	2.3	370	12.3	20	12.7	2	5.3	0	0.0	491	9.6
201-500	36	2.4	17	7.8	6	6.9	530	17.6	48	30.6	3	7.9	0	0.0	640	12.5
Over 500	20	1.3	20	9.2	2	2.3	643	21.4	21	13.4	2	5.3	1	1.0	709	13.9
Unk over-the-road dist.	27	1.8	5	2.3	2	2.3	133	4.4	2	1.3	0	0.0	0	0.0	169	3.3
Unknown	185	12.3	28	12.8	14	16.1	388	12.9	19	12.1	4	10.5	99	99.0	737	14.4
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

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.

- 2.3% of truck drivers involved in a fatal traffic accident had been drinking.
- Drug use was reported for 1.0% of truck drivers in a fatal crash.
- 95.7% of truck drivers involved in a fatal accident were male.
- 700 truck drivers were fatally injured in a traffic accident.
- 1.6% of truck drivers involved in a fatal accident were recorded as drowsy or asleep.
- Ran-off-road was the most common driver factor recorded (8.4%), followed by driving too fast (8.1%), inattentive (4.7%), and failure to stay in lane (4.7%). Cellular phone distraction was cited for 4.5% of drivers.
- 58.4% of truck drivers had no driver factors recorded.

Injuries are classified according to severity under the following levels:

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

**Table 4-1
Fatal Truck Involvements by Driver Drinking Status and Truck Configuration
TIFA 2003**

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	1441	96.1	214	98.2	84	96.6	2955	98.3	157	100.0	37	97.4	97	97.0	4985	97.7
Drinking	58	3.9	4	1.8	3	3.4	50	1.7	0	0.0	1	2.6	3	3.0	119	2.3
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

**Table 4-2
Fatal Truck Involvements by Driver Drug Use and Truck Configuration
TIFA 2003**

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	468	31.2	65	29.8	17	19.5	973	32.4	55	35.0	13	34.2	13	13.0	1604	31.4
Drugs involved	20	1.3	0	0.0	2	2.3	27	0.9	0	0.0	0	0.0	1	1.0	50	1.0
Not reported	903	60.2	135	61.9	63	72.4	1815	60.4	91	58.0	17	44.7	83	83.0	3107	60.9
Reported unk	108	7.2	18	8.3	5	5.7	190	6.3	11	7.0	8	21.1	3	3.0	343	6.7
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

**Table 4-3
Fatal Truck Involvements by Driver Age and Truck Configuration
TIFA 2003**

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.
11-20	43	2.9	7	3.2	0	0.0	10	0.3	0	0.0	2	5.3	2	2.0	64	1.3
21-25	118	7.9	21	9.6	3	3.4	115	3.8	3	1.9	5	13.2	6	6.0	271	5.3
26-30	163	10.9	23	10.6	4	4.6	259	8.6	12	7.6	2	5.3	8	8.0	471	9.2
31-35	226	15.1	15	6.9	9	10.3	375	12.5	20	12.7	4	10.5	11	11.0	660	12.9
36-40	204	13.6	38	17.4	14	16.1	424	14.1	17	10.8	1	2.6	12	12.0	710	13.9
41-45	212	14.1	31	14.2	13	14.9	453	15.1	24	15.3	7	18.4	19	19.0	759	14.9
46-50	172	11.5	28	12.8	12	13.8	439	14.6	21	13.4	2	5.3	15	15.0	689	13.5
51-55	128	8.5	14	6.4	9	10.3	350	11.6	26	16.6	4	10.5	8	8.0	539	10.6
56-60	76	5.1	18	8.3	11	12.6	287	9.6	15	9.6	6	15.8	11	11.0	424	8.3
61-65	67	4.5	9	4.1	4	4.6	172	5.7	13	8.3	1	2.6	1	1.0	267	5.2
66-70	38	2.5	2	0.9	4	4.6	52	1.7	1	0.6	0	0.0	1	1.0	98	1.9
71-75	10	0.7	5	2.3	1	1.1	22	0.7	0	0.0	1	2.6	2	2.0	41	0.8
> 75	6	0.4	1	0.5	0	0.0	7	0.2	1	0.6	1	2.6	0	0.0	16	0.3
Unknown	36	2.4	6	2.8	3	3.4	40	1.3	4	2.5	2	5.3	4	4.0	95	1.9
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 4-4
Fatal Truck Involvements by Driver Sex and Truck Configuration
TIFA 2003

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	1426	95.1	208	95.4	81	93.1	2882	95.9	153	97.5	36	94.7	96	96.0	4882	95.7
Female	38	2.5	4	1.8	3	3.4	86	2.9	1	0.6	0	0.0	1	1.0	133	2.6
Unknown	35	2.3	6	2.8	3	3.4	37	1.2	3	1.9	2	5.3	3	3.0	89	1.7
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 4-5
Fatal Truck Involvements by Driver Restraint Use and Truck Configuration
TIFA 2003

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	309	20.6	27	12.4	18	20.7	355	11.8	13	8.3	10	26.3	23	23.0	755	14.8
Shoulder belt	5	0.3	2	0.9	0	0.0	7	0.2	1	0.6	0	0.0	0	0.0	15	0.3
Lap belt	93	6.2	6	2.8	4	4.6	114	3.8	7	4.5	2	5.3	5	5.0	231	4.5
Lap and shoulder	884	59.0	160	73.4	56	64.4	2109	70.2	121	77.1	19	50.0	55	55.0	3404	66.7
Used, type unk	32	2.1	1	0.5	4	4.6	127	4.2	6	3.8	0	0.0	6	6.0	176	3.4
Belt use improper	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	175	11.7	22	10.1	5	5.7	293	9.8	9	5.7	7	18.4	11	11.0	522	10.2
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 4-6
Fatal Truck Involvements by Driver Injury Severity and Truck Configuration
TIFA 2003

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)	235	15.7	23	10.6	13	14.9	399	13.3	16	10.2	5	13.2	9	9.0	700	13.7
Incapacitating (A)	89	5.9	10	4.6	3	3.4	102	3.4	5	3.2	3	7.9	5	5.0	217	4.3
Non-incapacitating (B)	182	12.1	27	12.4	12	13.8	287	9.6	14	8.9	2	5.3	12	12.0	536	10.5
Complaint of pain (C)	207	13.8	24	11.0	9	10.3	308	10.2	12	7.6	1	2.6	10	10.0	571	11.2
No injury (O)	748	49.9	128	58.7	47	54.0	1876	62.4	107	68.2	25	65.8	58	58.0	2989	58.6
Unknown	38	2.5	6	2.8	3	3.4	33	1.1	3	1.9	2	5.3	6	6.0	91	1.8
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 4-7
Fatal Truck Involvements by Driver Injury Severity and Rollover, Fire, Ejection Status
TIFA 2003

Rollover, fire ejection	Fatal injury (K)		Incapaci- tating (A)		Non-incapa- citating (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	178	25.4	50	23.0	85	15.9	56	9.8	77	2.6	3	3.3	449	8.8
Fire only	65	9.3	14	6.5	33	6.2	20	3.5	32	1.1	0	0	164	3.2
Ejection only	61	8.7	9	4.1	1	0.2	0	0.0	3	0.1	0	0	74	1.4
Rollover and fire	43	6.1	7	3.2	7	1.3	2	0.4	1	0.0	0	0	60	1.2
Rollover & ejection	113	16.1	3	1.4	4	0.7	1	0.2	0	0.0	0	0	121	2.4
Fire and ejection	7	1.0	0	0.0	1	0.2	0	0.0	0	0.0	0	0	8	0.2
Rollover, fire, & eject	11	1.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0	11	0.2
None	214	30.6	134	61.8	404	75.4	492	86.2	2874	96.2	22	24.2	4140	81.1
Unknown	8	1.1	0	0.0	1	0.2	0	0.0	2	0.1	66	72.5	77	1.5
Total	700	100.0	217	100.0	536	100.0	571	100.0	2989	100.0	91	100	5104	100.0

Table 4-8
Fatal Truck Involvements by Driver Extrication and Truck Configuration
TIFA 2003

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	1376	91.8	202	92.7	82	94.3	2831	94.2	148	94.3	31	81.6	99	99.0	4769	93.4
Extricated	77	5.1	11	5.0	2	2.3	144	4.8	5	3.2	4	10.5	1	1.0	244	4.8
Unknown	46	3.1	5	2.3	3	3.4	30	1.0	4	2.5	3	7.9	0	0.0	91	1.8
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 4-9
Fatal Truck Involvements by Reported Hours Driven and Truck Configuration
TIFA 2003

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	358	23.9	58	26.6	33	37.9	479	15.9	21	13.4	8	21.1	0	0.0	957	18.8
2 hrs	150	10.0	23	10.6	2	2.3	311	10.3	20	12.7	5	13.2	0	0.0	511	10.0
3-4 hrs	220	14.7	35	16.1	10	11.5	450	15.0	30	19.1	5	13.2	0	0.0	750	14.7
5-6 hrs	156	10.4	15	6.9	3	3.4	365	12.1	17	10.8	4	10.5	1	1.0	561	11.0
7-8 hrs	75	5.0	7	3.2	3	3.4	192	6.4	19	12.1	2	5.3	0	0.0	298	5.8
9-10 hrs	16	1.1	2	0.9	3	3.4	91	3.0	6	3.8	1	2.6	0	0.0	119	2.3
11-12 hrs	3	0.2	1	0.5	0	0.0	14	0.5	2	1.3	0	0.0	0	0.0	20	0.4
13-18 hrs	1	0.1	1	0.5	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	10	0.2
> 18 hrs	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, legal	67	4.5	7	3.2	9	10.3	227	7.6	5	3.2	0	0.0	0	0.0	315	6.2
Unk, not legal	0	0.0	0	0.0	1	1.1	7	0.2	0	0.0	0	0.0	0	0.0	8	0.2
Unknown/NA	453	30.2	69	31.7	23	26.4	860	28.6	37	23.6	13	34.2	99	99.0	1554	30.4
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 4-10
Fatal Truck Involvements by Number of Previous Accidents and Truck Configuration
TIFA 2003

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	1121	74.8	167	76.6	68	78.2	2286	76.1	118	75.2	27	71.1	76	76.0	3863	75.7
1	197	13.1	34	15.6	8	9.2	338	11.2	19	12.1	8	21.1	8	8.0	612	12.0
2	45	3.0	1	0.5	4	4.6	57	1.9	7	4.5	0	0.0	0	0.0	114	2.2
3	2	0.1	1	0.5	2	2.3	20	0.7	1	0.6	0	0.0	0	0.0	26	0.5
4	2	0.1	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	1	1.0	6	0.1
5	1	0.1	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Not reported	79	5.3	7	3.2	2	2.3	155	5.2	6	3.8	0	0.0	7	7.0	256	5.0
Unknown	52	3.5	7	3.2	3	3.4	146	4.9	6	3.8	3	7.9	8	8.0	225	4.4
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 4-11
Fatal Truck Involvements by Number of Previous Suspensions and Truck Configuration
TIFA 2003

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	1324	88.3	190	87.2	79	90.8	2667	88.8	144	91.7	31	81.6	85	85.0	4520	88.6
1	75	5.0	14	6.4	3	3.4	129	4.3	5	3.2	3	7.9	4	4.0	233	4.6
2	28	1.9	2	0.9	0	0.0	35	1.2	1	0.6	0	0.0	1	1.0	67	1.3
3	10	0.7	1	0.5	1	1.1	16	0.5	0	0.0	0	0.0	1	1.0	29	0.6
4	4	0.3	0	0.0	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	10	0.2
5	1	0.1	2	0.9	0	0.0	3	0.1	1	0.6	0	0.0	1	1.0	8	0.2
6	1	0.1	1	0.5	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
7	2	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
8	2	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
9	0	0.0	0	0.0	1	1.1	0	0.0	0	0.0	1	2.6	0	0.0	2	0.0
11	0	0.0	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Unknown	52	3.5	7	3.2	3	3.4	146	4.9	6	3.8	3	7.9	8	8.0	225	4.4
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 4-12
Fatal Truck Involvements by Number of Previous Speeding Convictions and Truck Configuration
TIFA 2003

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	1122	74.8	157	72.0	56	64.4	1983	66.0	116	73.9	25	65.8	70	70.0	3529	69.1
1	248	16.5	37	17.0	21	24.1	565	18.8	27	17.2	10	26.3	16	16.0	924	18.1
2	56	3.7	11	5.0	5	5.7	205	6.8	6	3.8	0	0.0	5	5.0	288	5.6
3	12	0.8	3	1.4	2	2.3	69	2.3	0	0.0	0	0.0	1	1.0	87	1.7
4	7	0.5	1	0.5	0	0.0	16	0.5	2	1.3	0	0.0	0	0.0	26	0.5
5	1	0.1	1	0.5	0	0.0	11	0.4	0	0.0	0	0.0	0	0.0	13	0.3
6	1	0.1	1	0.5	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	7	0.1
7	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
8	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	52	3.5	7	3.2	3	3.4	146	4.9	6	3.8	3	7.9	8	8.0	225	4.4
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 4-13
Fatal Truck Involvements by Previous Other Moving Convictions and Truck Configuration
TIFA 2003

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	1152	76.9	165	75.7	61	70.1	2056	68.4	115	73.2	23	60.5	74	74.0	3646	71.4
1	214	14.3	30	13.8	17	19.5	529	17.6	23	14.6	9	23.7	14	14.0	836	16.4
2	56	3.7	7	3.2	4	4.6	164	5.5	9	5.7	3	7.9	2	2.0	245	4.8
3	15	1.0	4	1.8	1	1.1	59	2.0	2	1.3	0	0.0	2	2.0	83	1.6
4	7	0.5	4	1.8	1	1.1	33	1.1	1	0.6	0	0.0	0	0.0	46	0.9
5	1	0.1	1	0.5	0	0.0	10	0.3	1	0.6	0	0.0	0	0.0	13	0.3
6	0	0.0	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	3	0.1
7	0	0.0	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	3	0.1
8	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
10	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
16	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	52	3.5	7	3.2	3	3.4	146	4.9	6	3.8	3	7.9	8	8.0	225	4.4
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 4-14
Fatal Truck Involvements by License Class Compliance and Truck Configuration
TIFA 2003

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	6	0.4	1	0.5	0	0.0	3	0.1	0	0.0	0	0.0	1	1.0	11	0.2
Not required	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Not valid	67	4.5	18	8.3	2	2.3	58	1.9	3	1.9	2	5.3	4	4.0	154	3.0
Valid	1363	90.9	192	88.1	81	93.1	2802	93.2	148	94.3	34	89.5	79	79.0	4699	92.1
Unk if CDL req.	11	0.7	0	0.0	1	1.1	11	0.4	0	0.0	0	0.0	8	8.0	31	0.6
Unknown	51	3.4	7	3.2	3	3.4	130	4.3	6	3.8	2	5.3	8	8.0	207	4.1
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 4-15
Fatal Truck Involvements by CDL License Status and Truck Configuration
TIFA 2003

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	537	35.8	97	44.5	0	0.0	28	0.9	0	0.0	12	31.6	32	32.0	706	13.8
Suspended	4	0.3	2	0.9	1	1.1	17	0.6	2	1.3	2	5.3	2	2.0	30	0.6
Revoked	0	0.0	1	0.5	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Expired	3	0.2	0	0.0	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	11	0.2
Cancelled/denied	2	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Disqualified	0	0.0	0	0.0	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	6	0.1
Valid	889	59.3	107	49.1	82	94.3	2803	93.3	148	94.3	21	55.3	57	57.0	4107	80.5
Learner's permit	4	0.3	0	0.0	0	0.0	1	0.0	0	0.0	1	2.6	0	0.0	6	0.1
Other-not valid	8	0.5	3	1.4	0	0.0	11	0.4	1	0.6	0	0.0	0	0.0	23	0.5
Unknown	52	3.5	8	3.7	4	4.6	127	4.2	6	3.8	2	5.3	9	9.0	208	4.1
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 4-16
Fatal Truck Involvements by License Endorsements and Truck Configuration
TIFA 2003

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	1160	77.4	170	78.0	54	62.1	1773	59.0	27	17.2	24	63.2	73	73.0	3281	64.3
Complied	146	9.7	23	10.6	12	13.8	604	20.1	103	65.6	8	21.1	4	4.0	900	17.6
Not complied	11	0.7	3	1.4	0	0.0	24	0.8	3	1.9	0	0.0	4	4.0	45	0.9
Compliance unk	98	6.5	11	5.0	14	16.1	348	11.6	9	5.7	2	5.3	6	6.0	488	9.6
Unknown	84	5.6	11	5.0	7	8.0	256	8.5	15	9.6	4	10.5	13	13.0	390	7.6
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

Table 4-17
Fatal Truck Involvements by Driver-Related Factors and Truck Configuration
TIFA 2003

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	815	54.4	127	58.3	45	51.7	1800	59.9	106	67.5	19	50.0	67	67.0	2979	58.4
<i>Physical/mental cond.</i>																
Drowsy, asleep	18	1.2	5	2.3	2	2.3	56	1.9	2	1.3	0	0.0	1	1.0	84	1.6
Ill, passed out, blackout	4	0.3	2	0.9	1	1.1	10	0.3	0	0.0	0	0.0	0	0.0	17	0.3
Drugs, medication	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 drugs	26	1.7	3	1.4	0	0.0	28	0.9	0	0.0	0	0.0	3	3.0	60	1.2
Inattentive	65	4.3	5	2.3	7	8.0	149	5.0	4	2.5	0	0.0	11	11.0	241	4.7
Wheelchair	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 physical	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	143	9.5	12	5.5	7	8.0	248	8.3	8	5.1	5	13.2	4	4.0	427	8.4
Prohibited trafficway	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Vehicle unattended	15	1.0	1	0.5	3	3.4	12	0.4	2	1.3	1	2.6	0	0.0	34	0.7
Improper loading	11	0.7	1	0.5	0	0.0	15	0.5	0	0.0	2	5.3	1	1.0	30	0.6
Improper towing	0	0.0	6	2.8	1	1.1	0	0.0	0	0.0	2	5.3	0	0.0	9	0.2
W/O req equipment	13	0.9	2	0.9	1	1.1	15	0.5	3	1.9	2	5.3	0	0.0	36	0.7
Improper tailing	22	1.5	5	2.3	0	0.0	73	2.4	2	1.3	1	2.6	2	2.0	105	2.1
Improper lane change	9	0.6	1	0.5	1	1.1	29	1.0	0	0.0	1	2.6	1	1.0	42	0.8
Failure to stay in lane	85	5.7	10	4.6	7	8.0	131	4.4	3	1.9	2	5.3	1	1.0	239	4.7
Driving on shoulder	3	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Improper entry/exit	4	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1
Improper start/back	18	1.2	0	0.0	0	0.0	12	0.4	0	0.0	0	0.0	0	0.0	30	0.6
Prohibited passing	5	0.3	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	1	1.0	9	0.2
Passing on wrong side	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Passing-insufficient dist	2	0.1	1	0.5	1	1.1	15	0.5	1	0.6	0	0.0	0	0.0	20	0.4
Erratic/reckless	39	2.6	1	0.5	4	4.6	96	3.2	4	2.5	1	2.6	6	6.0	151	3.0
High speed chase	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Failure to yield	87	5.8	13	6.0	9	10.3	100	3.3	3	1.9	0	0.0	5	5.0	217	4.3
Failure to obey signs	46	3.1	6	2.8	4	4.6	60	2.0	2	1.3	2	5.3	2	2.0	122	2.4
Passing around barrier	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Fail to observe warning	1	0.1	1	0.5	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	10	0.2
Failure to signal	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Driving too fast	117	7.8	10	4.6	7	8.0	263	8.8	11	7.0	2	5.3	5	5.0	415	8.1
Under minimum speed	4	0.3	0	0.0	1	1.1	3	0.1	0	0.0	1	2.6	0	0.0	9	0.2
Wrong lane turn	0	0.0	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Other improper turn	24	1.6	2	0.9	1	1.1	27	0.9	1	0.6	1	2.6	2	2.0	58	1.1
Wrong way	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 side of road	11	0.7	2	0.9	0	0.0	16	0.5	0	0.0	0	0.0	1	1.0	30	0.6
Operator inexperience	1	0.1	1	0.5	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	7	0.1
Unfamiliar w/roadway	1	0.1	1	0.5	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	7	0.1
Stopped in roadway	10	0.7	2	0.9	2	2.3	23	0.8	2	1.3	1	2.6	0	0.0	40	0.8
Locked wheel	3	0.2	0	0.0	0	0.0	9	0.3	1	0.6	0	0.0	0	0.0	13	0.3
Over correcting	33	2.2	1	0.5	2	2.3	40	1.3	0	0.0	0	0.0	2	2.0	78	1.5
On/Off moving vehicle	1	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	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>																
Incllement weather	9	0.6	3	1.4	0	0.0	38	1.3	1	0.6	0	0.0	0	0.0	51	1.0
Glare	7	0.5	1	0.5	0	0.0	4	0.1	1	0.6	0	0.0	1	1.0	14	0.3
Curve, hill, etc.	5	0.3	1	0.5	0	0.0	5	0.2	1	0.6	0	0.0	0	0.0	12	0.2
Building, billboard	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Trees, crops, vegetation	5	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	0.1
Motor vehicle	3	0.2	1	0.5	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	7	0.1
Parked 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
Inadequate lighting system	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Obstructing angles	3	0.2	1	0.5	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	6	0.1
Mirrors	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Other obstruction	2	0.1	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	6	0.1
<i>Avoiding, swerving due to</i>																
Severe crosswind	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Slippery surface	2	0.1	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Tire blowout or flat	11	0.7	2	0.9	0	0.0	4	0.1	1	0.6	0	0.0	0	0.0	18	0.4
Debris in road	1	0.1	0	0.0	0	0.0	6	0.2	1	0.6	0	0.0	0	0.0	8	0.2
Rut in road	2	0.1	1	0.5	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Live animal in road	0	0.0	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Vehicle in road	26	1.7	0	0.0	2	2.3	26	0.9	1	0.6	0	0.0	0	0.0	55	1.1
Phantom vehicle	2	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Pedestrian in road	2	0.1	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	7	0.1
Ice, water, snow on road	20	1.3	1	0.5	1	1.1	40	1.3	1	0.6	0	0.0	0	0.0	63	1.2
Trailer fishtailing	0	0.0	2	0.9	0	0.0	4	0.1	0	0.0	0	0.0	1	1.0	7	0.1
<i>Other misc. factors</i>																
Haul hazmat improperly	3	0.2	1	0.5	1	1.1	21	0.7	0	0.0	0	0.0	0	0.0	26	0.5
Hit and run driver	14	0.9	3	1.4	0	0.0	24	0.8	2	1.3	0	0.0	4	4.0	47	0.9
Homocide	19	1.3	2	0.9	0	0.0	30	1.0	3	1.9	0	0.0	0	0.0	54	1.1
Other nonmoving viol.	32	2.1	6	1.4	1	1.1	52	1.7	0	0.0	2	5.3	2	2.0	95	1.9
<i>Possible distractions</i>																
Cellular phone	70	4.7	16	7.3	4	4.6	119	4.0	18	11.5	1	2.6	0	0.0	228	4.5
Fax machine	0	0.0	1	0.5	1	1.1	2	0.1	1	0.6	0	0.0	0	0.0	5	0.1
Unknown	21	1.4	4	1.8	3	3.4	34	1.1	0	0.0	1	2.6	1	1.0	68	1.3
Total	1499	100.0	218	100.0	87	100.0	3005	100.0	157	100.0	38	100.0	100	100.0	5104	100.0

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

Straight trucks

This section provides descriptive statistics on straight trucks involved in a fatal traffic accident in 2003. All truck configurations in which the power unit was a straight truck are included in this section. A straight truck is a truck power unit with a permanently attached cargo body. Straight truck configurations include trucks pulling no trailers, trucks pulling a full or other trailer, and wreckers towing cars or other straight trucks.

- Truck configurations with a straight-truck power unit accounted for 34.1% of all trucks involved in a fatal traffic accident in 2003.
- 38.1% of straight trucks were Class 8 (over 33,000 lbs.) Gross Vehicle Weight Rating (GVWR), and 22.6% were Class 3 (10,001-14,000 lbs.).
- The lightest straight truck involved in a fatal accident in 2003 weighed 5,000 pounds or less; the heaviest straight truck combination weighed over 120,000 pounds.
- 36.9% of straight trucks were empty at the time of the accident; while solids in bulk was the most frequent cargo type, accounting for 20.0%.
- 54.2% of straight truck configurations involved in a fatal traffic accident had two axles, 22.8% had three axles (including the trailer), and one straight truck combination had six axles on the power unit and five axles on the trailer.
- 37.0% of straight trucks were operated by a private, intrastate carrier; 20.9% by a private, interstate carrier; and only 9.9% by a for-hire, interstate carrier.
- 62.7% of straight trucks were on a local trip (within 50 miles of base) at the time of the accident.
- 262 straight truck drivers were fatally injured in a traffic accident; 50.0% of the fatalities occurred in ran-off-road crashes.

Note: 505 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 2003

Configuration	No.	Pct.
<i>Straight truck only</i>	1499	86.1
<i>Straight truck, 1 trailer</i>		
Straight + full trailer	37	2.1
Straight + other	122	7.0
Straight + other, gooseneck hitch	59	3.4
<i>Subtotal</i>	218	12.5
<i>Other straight combinations</i>		
Wrecker + tow	19	1.1
Straight, unknown if pulling trailer	4	0.2
Straight + 2 saddle mount straights	1	0.1
<i>Subtotal</i>	24	1.4
Total straight trucks	1741	100.0

Table 5-2
Fatal Truck Involvements by Cargo Body Style – Straight Trucks
TIFA 2003

Cargo body style	No.	Pct.
Van	319	18.3
Open top van	2	0.1
Refrigerated van	41	2.4
Livestock	6	0.3
Flatbed	132	7.6
Flatbed with equipment	42	2.4
Flatbed with sides	49	2.8
Pole/logging	16	0.9
Tank:liquid/gas	79	4.5
Tank:dry	1	0.1
Auto carrier	16	0.9
Dump	369	21.2
Hopper bottom	2	0.1
Garbage/refuse	132	7.6
Other	505	29.0
Unknown	30	1.7
Total	1741	100.0

Table 5-3
Fatal Truck Involvements by Gross Vehicle Weight Rating and Cargo Body Style – Straight Trucks
TIFA 2003

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	86	23.8	55	24.7	1	1.3	11	3.0	0	0.0	0	0.0	233	44.2	8	26.7	394	22.6
Class 4: 14,001-16,000	35	9.7	27	12.1	3	3.8	8	2.2	0	0.0	0	0.0	46	8.7	6	20.0	125	7.2
Class 5: 16,001-19,500	27	7.5	9	4.0	2	2.5	3	0.8	0	0.0	0	0.0	31	5.9	1	3.3	73	4.2
Class 6: 19,501-26,000	116	32.0	41	18.4	7	8.8	17	4.6	1	0.8	1	6.3	64	12.1	7	23.3	254	14.6
Class 7: 26,001-33,000	77	21.3	32	14.3	31	38.8	24	6.5	11	8.3	0	0.0	28	5.3	4	13.3	207	11.9
Class 8: 33,001 or more	21	5.8	57	25.6	34	42.5	302	81.4	118	89.4	15	93.8	115	21.8	1	3.3	663	38.1
Unknown	0	0.0	2	0.9	2	2.5	6	1.6	2	1.5	0	0.0	10	1.9	3	10.0	25	1.4
Total	362	100.0	223	100.0	80	100.0	371	100.0	132	100.0	16	100.0	527	100.0	30	100.0	1741	100.0

* Note: The Other category includes 16 auto carriers and six livestock 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 2003

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	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0	1	0.1
5,001-10,000	56	15.5	58	26.0	1	1.3	5	1.3	0	0.0	1	6.3	148	28.1	0	0.0	269	15.5
10,001-15,000	109	30.1	49	22.0	7	8.8	22	5.9	1	0.8	0	0.0	121	23.0	0	0.0	309	17.7
15,001-20,000	66	18.2	27	12.1	7	8.8	27	7.3	8	6.1	2	12.5	43	8.2	0	0.0	180	10.3
20,001-25,000	31	8.6	14	6.3	13	16.3	61	16.4	13	9.8	0	0.0	27	5.1	0	0.0	159	9.1
25,001-30,000	10	2.8	9	4.0	12	15.0	69	18.6	27	20.5	0	0.0	22	4.2	0	0.0	149	8.6
30,001-35,000	8	2.2	11	4.9	11	13.8	15	4.0	18	13.6	0	0.0	16	3.0	0	0.0	79	4.5
35,001-40,000	2	0.6	9	4.0	5	6.3	12	3.2	8	6.1	1	6.3	9	1.7	0	0.0	46	2.6
40,001-45,000	2	0.6	3	1.3	2	2.5	9	2.4	12	9.1	1	6.3	9	1.7	0	0.0	38	2.2
45,001-50,000	0	0.0	2	0.9	1	1.3	8	2.2	10	7.6	2	12.5	11	2.1	0	0.0	34	2.0
50,001-55,000	1	0.3	2	0.9	4	5.0	16	4.3	4	3.0	0	0.0	7	1.3	0	0.0	34	2.0
55,001-60,000	0	0.0	4	1.8	1	1.3	19	5.1	2	1.5	0	0.0	6	1.1	0	0.0	32	1.8
60,001-65,000	0	0.0	0	0.0	0	0.0	13	3.5	2	1.5	1	6.3	11	2.1	0	0.0	27	1.6
65,001-70,000	0	0.0	1	0.4	1	1.3	16	4.3	1	0.8	0	0.0	8	1.5	0	0.0	27	1.6
70,001-75,000	0	0.0	1	0.4	0	0.0	18	4.9	0	0.0	1	6.3	6	1.1	0	0.0	26	1.5
75,001-80,000	0	0.0	0	0.0	2	2.5	5	1.3	0	0.0	1	6.3	7	1.3	0	0.0	15	0.9
80,001-85,000	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
85,001-90,000	0	0.0	0	0.0	0	0.0	4	1.1	0	0.0	1	6.3	0	0.0	0	0.0	5	0.3
90,001-95,000	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
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	0	0.0	1	0.3	0	0.0	2	12.5	1	0.2	0	0.0	4	0.2
110,001-120,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	6.3	0	0.0	0	0.0	1	0.1
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
Unknown	77	21.3	33	14.8	13	16.3	48	12.9	26	19.7	2	12.5	74	14.0	30	100.0	303	17.4
Total	362	100.0	223	100.0	80	100.0	371	100.0	132	100.0	16	100.0	527	100.0	30	100.0	1741	100.0

* Note: The Other category includes 16 auto carriers and six livestock carriers.

**Table 5-5
Fatal Truck Involvements by Cargo Type and Cargo Body Style – Straight Trucks
TIFA 2003**

Cargo type	Van		Open top van		Refrigerated van		Livestock carrier		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.	No.	Pct.
Empty	72	22.6	1	50.0	8	19.5	4	66.7	57	43.2	18	42.9	13	26.5	5	31.3	13	16.5
General freight	132	41.4	0	0.0	0	0.0	0	0.0	8	6.1	0	0.0	8	16.3	0	0.0	0	0.0
Household goods	33	10.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.0	0	0.0	0	0.0
Building materials	2	0.6	0	0.0	0	0.0	0	0.0	9	6.8	7	16.7	3	6.1	0	0.0	0	0.0
Metal (coils, sheets)	2	0.6	0	0.0	0	0.0	0	0.0	3	2.3	1	2.4	0	0.0	0	0.0	0	0.0
Heavy machinery	2	0.6	0	0.0	0	0.0	0	0.0	5	3.8	0	0.0	0	0.0	0	0.0	0	0.0
Large objects	1	0.3	0	0.0	0	0.0	0	0.0	9	6.8	2	4.8	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	1	2.4	0	0.0	0	0.0	0	0.0
Piggyback/towaway	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Gases in bulk	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	7.6
Solids in bulk	11	3.4	0	0.0	2	4.9	0	0.0	7	5.3	1	2.4	9	18.4	0	0.0	0	0.0
Liquids in bulk	0	0.0	0	0.0	0	0.0	0	0.0	1	0.8	0	0.0	0	0.0	0	0.0	59	74.7
Explosives	0	0.0	0	0.0	1	2.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Logs/poles/lumber	2	0.6	0	0.0	0	0.0	0	0.0	10	7.6	4	9.5	0	0.0	11	68.8	0	0.0
Refrigerated foods	1	0.3	0	0.0	27	65.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Farm products	8	2.5	0	0.0	1	2.4	0	0.0	2	1.5	0	0.0	1	2.0	0	0.0	0	0.0
Live animals	0	0.0	0	0.0	1	2.4	2	33.3	1	0.8	0	0.0	0	0.0	0	0.0	0	0.0
Other	32	10.0	0	0.0	0	0.0	0	0.0	12	9.1	8	19.0	10	20.4	0	0.0	0	0.0
Cargo, unk. type	0	0.0	0	0.0	0	0.0	0	0.0	1	0.8	0	0.0	0	0.0	0	0.0	0	0.0
Unknown	21	6.6	1	50.0	1	2.4	0	0.0	7	5.3	0	0.0	4	8.2	0	0.0	1	1.3
Total	319	100.0	2	100.0	41	100.0	6	100.0	132	100.0	42	100.0	49	100.0	16	100.0	79	100.0

Table 5-5 (continued)

Cargo Type	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.
Empty	1	100.0	6	37.5	163	44.2	0	0.0	42	31.8	240	47.5	0	0.0	643	36.9
General freight	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.6	0	0.0	151	8.7
Household goods	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.8	0	0.0	38	2.2
Building materials	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.6	0	0.0	24	1.4
Metal (coils, sheets)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	0.3
Heavy machinery	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.4	0	0.0	9	0.5
Large objects	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0	4	0.8	0	0.0	17	1.0
Motor vehicles	0	0.0	9	56.3	1	0.3	0	0.0	0	0.0	15	3.0	0	0.0	26	1.5
Piggyback/towaway	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	19	3.8	0	0.0	19	1.1
Gases in bulk	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	0.3
Solids in bulk	0	0.0	0	0.0	175	47.4	1	50.0	81	61.4	62	12.3	0	0.0	349	20.0
Liquids in bulk	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.8	0	0.0	64	3.7
Explosives	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
Logs/poles/lumber	0	0.0	0	0.0	2	0.5	0	0.0	0	0.0	3	0.6	0	0.0	32	1.8
Refrigerated foods	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	28	1.6
Farm products	0	0.0	0	0.0	3	0.8	1	50.0	0	0.0	0	0.0	0	0.0	16	0.9
Live animals	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.2
Other	0	0.0	0	0.0	7	1.9	0	0.0	0	0.0	118	23.4	0	0.0	187	10.7
Cargo, unk. type	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	3.3	2	0.1
Unknown	0	0.0	1	6.3	17	4.6	0	0.0	9	6.8	28	5.5	29	96.7	119	6.8
Total	1	100.0	16	100.0	369	100.0	2	100.0	132	100.0	505	100.0	30	100.0	1741	100.0

Table 5-6
Fatal Truck Involvements by Axle Combinations – Straight Truck Configurations
TIFA 2003

Straight only Power unit axles*	Strt/ 1 trlr Trailer axles*	Total	
		No.	Pct.
2		931	54.2
3		375	21.8
4		167	9.7
5		19	1.1
6		4	0.2
7		1	0.1
2	1	18	1.0
2	2	129	7.5
2	3	5	0.3
3	1	1	0.1
3	2	46	2.7
3	3	1	0.1
4	2	3	0.2
4	3	4	0.2
4	4	1	0.1
5	3	1	0.1
6	3	1	0.1
6	5	1	0.1
Unknown		9	0.5
Total		1717	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 24 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 2003

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	94	26.0	59	26.5	22	27.5	24	6.5	35	26.5	2	12.5	124	23.5	3	10.0	363	20.9
Interstate for-hire	50	13.8	14	6.3	9	11.3	37	10.0	7	5.3	5	31.3	50	9.5	1	3.3	173	9.9
Intrastate private	110	30.4	100	44.8	34	42.5	118	31.8	51	38.6	6	37.5	224	42.5	1	3.3	644	37.0
Intrastate for-hire	40	11.0	13	5.8	7	8.8	126	34.0	12	9.1	3	18.8	40	7.6	0	0.0	241	13.8
Government owned	5	1.4	7	3.1	3	3.8	32	8.6	21	15.9	0	0.0	13	2.5	0	0.0	81	4.7
Daily rental	32	8.8	1	0.4	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	34	2.0
Unknown	31	8.6	29	13.0	5	6.3	33	8.9	6	4.5	0	0.0	76	14.4	25	83.3	205	11.8
Total	362	100.0	223	100.0	80	100.0	371	100.0	132	100.0	16	100.0	527	100.0	30	100.0	1741	100.0

* Note: The Other category includes 16 auto carriers and six livestock carriers.

**Table 5-8
Fatal Truck Involvements by Trip Type and Cargo Body Style – Straight Trucks
TIFA 2003**

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	156	43.1	136	61.0	53	66.3	296	79.8	99	75.0	10	62.5	342	64.9	0	0.0	1092	62.7
51-100 miles	79	21.8	32	14.3	13	16.3	23	6.2	12	9.1	4	25.0	44	8.3	0	0.0	207	11.9
101-200	34	9.4	15	6.7	7	8.8	8	2.2	4	3.0	1	6.3	29	5.5	0	0.0	98	5.6
201-500	23	6.4	4	1.8	1	1.3	3	0.8	1	0.8	0	0.0	22	4.2	0	0.0	54	3.1
Over 500	16	4.4	7	3.1	0	0.0	1	0.3	0	0.0	0	0.0	18	3.4	0	0.0	42	2.4
Unk over-the-road dist	9	2.5	5	2.2	0	0.0	4	1.1	1	0.8	0	0.0	13	2.5	0	0.0	32	1.8
Unknown	45	12.4	24	10.8	6	7.5	36	9.7	15	11.4	1	6.3	59	11.2	30	100.0	216	12.4
Total	362	100.0	223	100.0	80	100.0	371	100.0	132	100.0	16	100.0	527	100.0	30	100.0	1741	100.0

*Note: The Other category includes 16 auto carriers and six livestock carriers.

**Table 5-9
Fatal Truck Involvements by Route Signing and Cargo Body Style – Straight Trucks
TIFA 2003**

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	71	19.6	32	14.3	6	7.5	45	12.1	5	3.8	0	0.0	85	16.1	9	30.0	253	14.5
US highway	82	22.7	45	20.2	20	25.0	76	20.5	24	18.2	4	25.0	136	25.8	4	13.3	391	22.5
State highway	111	30.7	75	33.6	24	30.0	129	34.8	37	28.0	7	43.8	157	29.8	10	33.3	550	31.6
County road	37	10.2	37	16.6	17	21.3	60	16.2	22	16.7	4	25.0	63	12.0	1	3.3	241	13.8
Township	7	1.9	3	1.3	6	7.5	15	4.0	8	6.1	0	0.0	5	0.9	2	6.7	46	2.6
Municipality	43	11.9	23	10.3	5	6.3	23	6.2	29	22.0	0	0.0	47	8.9	3	10.0	173	9.9
Frontage road	0	0.0	0	0.0	0	0.0	3	0.8	0	0.0	0	0.0	1	0.2	0	0.0	4	0.2
Other	10	2.8	7	3.1	2	2.5	17	4.6	6	4.5	1	6.3	31	5.9	1	3.3	75	4.3
Unknown	1	0.3	1	0.4	0	0.0	3	0.8	1	0.8	0	0.0	2	0.4	0	0.0	8	0.5
Total	362	100.0	223	100.0	80	100.0	371	100.0	132	100.0	16	100.0	527	100.0	30	100.0	1741	100.0

* Note: The Other category includes 16 auto carriers and six livestock carriers.

**Table 5-10
Fatal Truck Involvements by Land Use and Cargo Body Style – Straight Trucks
TIFA 2003**

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	164	45.3	66	29.6	16	20.0	123	33.2	66	50.0	0	0.0	188	35.7	17	56.7	640	36.8
Rural	196	54.1	156	70.0	64	80.0	244	65.8	65	49.2	16	100.0	336	63.8	13	43.3	1090	62.6
Unknown	2	0.6	1	0.4	0	0.0	4	1.1	1	0.8	0	0.0	3	0.6	0	0.0	11	0.6
Total	362	100.0	223	100.0	80	100.0	371	100.0	132	100.0	16	100.0	527	100.0	30	100.0	1741	100.0

* Note: The Other category includes 16 auto carriers and six livestock carriers.

Table 5-11
Fatal Truck Involvements by Light Condition and Cargo Body Style – Straight Trucks
TIFA 2003

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	255	70.4	172	77.1	67	83.8	318	85.7	102	77.3	13	81.3	352	66.8	22	73.3	1301	74.7
Dark	58	16.0	29	13.0	7	8.8	28	7.5	7	5.3	1	6.3	98	18.6	3	10.0	231	13.3
Dark but lighted	35	9.7	14	6.3	2	2.5	18	4.9	19	14.4	1	6.3	50	9.5	5	16.7	144	8.3
Dawn	12	3.3	6	2.7	4	5.0	5	1.3	4	3.0	0	0.0	14	2.7	0	0.0	45	2.6
Dusk	2	0.6	2	0.9	0	0.0	2	0.5	0	0.0	1	6.3	11	2.1	0	0.0	18	1.0
Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.4	0	0.0	2	0.1
Total	362	100.0	223	100.0	80	100.0	371	100.0	132	100.0	16	100.0	527	100.0	30	100.0	1741	100.0

* Note: The Other category includes 16 auto carriers and six livestock carriers.

Accident description

Table 5-12
Fatal Truck Involvements by Accident Type and Driver Injury Severity – Straight Trucks
TIFA 2003

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	131	50.0	5	4.9	7	3.3	3	1.3	1	0.1	0	0.0	147	8.4
Hit object in road	16	6.1	0	0.0	1	0.5	4	1.7	150	16.8	9	20.0	180	10.3
<i>Same direction, same trafficway</i>														
Rearend, truck striking	13	5.0	7	6.9	10	4.8	13	5.6	27	3.0	0	0.0	70	4.0
Rearend, truck struck	6	2.3	2	2.0	14	6.7	24	10.3	98	11.0	8	17.8	152	8.7
Sideswipe, in other's lane	3	1.1	1	1.0	1	0.5	0	0.0	5	0.6	0	0.0	10	0.6
Sideswipe, in truck's lane	1	0.4	0	0.0	1	0.5	2	0.9	19	2.1	0	0.0	23	1.3
<i>Opposite direction, same trafficway</i>														
Head-on, in other's lane	15	5.7	2	2.0	11	5.3	8	3.4	4	0.4	0	0.0	40	2.3
Head-on, in truck's lane	7	2.7	26	25.5	52	24.9	38	16.4	71	8.0	1	2.2	195	11.2
Sideswipe, in other's lane	12	4.6	9	8.8	8	3.8	2	0.9	12	1.3	0	0.0	43	2.5
Sideswipe, in truck's lane	11	4.2	18	17.6	37	17.7	31	13.4	87	9.8	1	2.2	185	10.6
<i>Change trafficway, one vehicle turning</i>														
Truck turn across path	0	0.0	0	0.0	4	1.9	5	2.2	55	6.2	0	0.0	64	3.7
Other turn across path	3	1.1	9	8.8	17	8.1	26	11.2	92	10.3	1	2.2	148	8.5
<i>Intersecting paths, both going straight</i>														
Truck into side of other	5	1.9	9	8.8	25	12.0	37	15.9	92	10.3	0	0.0	168	9.6
Other into side of truck	7	2.7	3	2.9	3	1.4	6	2.6	29	3.3	0	0.0	48	2.8
<i>Other accident types</i>														
Truck backed into other	0	0.0	0	0.0	1	0.5	1	0.4	10	1.1	0	0.0	12	0.7
Untripped roll	9	3.4	1	1.0	1	0.5	0	0.0	1	0.1	0	0.0	12	0.7
Other	18	6.9	9	8.8	15	7.2	30	12.9	125	14.0	24	53.3	221	12.7
Unknown	5	1.9	1	1.0	1	0.5	2	0.9	13	1.5	1	2.2	23	1.3
Total	262	100.0	102	100.0	209	100.0	232	100.0	891	100.0	45	100.0	1741	100.0

Table 5-13
Fatal Truck Involvements by Manner of Collision and Cargo Body Style – Straight Trucks
TIFA 2003

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	86	23.8	63	28.3	29	36.3	65	17.5	55	41.7	4	25.0	130	24.7	7	23.3	439	25.2
Rear-end	61	16.9	34	15.2	4	5.0	70	18.9	19	14.4	2	12.5	87	16.5	11	36.7	288	16.5
Head-on	65	18.0	36	16.1	16	20.0	51	13.7	15	11.4	3	18.8	98	18.6	0	0.0	284	16.3
Front-to-side:same dir	8	2.2	4	1.8	0	0.0	2	0.5	3	2.3	0	0.0	14	2.7	0	0.0	31	1.8
Front-to-side:opp dir	47	13.0	28	12.6	10	12.5	65	17.5	11	8.3	3	18.8	68	12.9	6	20.0	238	13.7
Front-to-side:right angle	66	18.2	42	18.8	17	21.3	85	22.9	23	17.4	3	18.8	94	17.8	1	3.3	331	19.0
Front-to-side:other	5	1.4	2	0.9	0	0.0	6	1.6	2	1.5	0	0.0	2	0.4	3	10.0	20	1.1
Sideswipe:same direction	6	1.7	4	1.8	2	2.5	10	2.7	1	0.8	0	0.0	11	2.1	2	6.7	36	2.1
Sideswipe:opp. direction	11	3.0	6	2.7	1	1.3	10	2.7	3	2.3	1	6.3	16	3.0	0	0.0	48	2.8
Rear-to-side	1	0.3	3	1.3	0	0.0	2	0.5	0	0.0	0	0.0	5	0.9	0	0.0	11	0.6
Other	1	0.3	1	0.4	0	0.0	4	1.1	0	0.0	0	0.0	1	0.2	0	0.0	7	0.4
Unknown	5	1.4	0	0.0	1	1.3	1	0.3	0	0.0	0	0.0	1	0.2	0	0.0	8	0.5
Total	362	100.0	223	100.0	80	100.0	371	100.0	132	100.0	16	100.0	527	100.0	30	100.0	1741	100.0

* Note: The Other category includes 16 auto carriers and six livestock carriers.

Table 5-14
Fatal Truck Involvements by Driver Injury Severity and Cargo Body Style – Straight Trucks
TIFA 2003

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)	47	13.0	41	18.4	29	36.3	45	12.1	8	6.1	2	12.5	90	17.1	0	0.0	262	15.0
Incapacitating (A)	24	6.6	9	4.0	3	3.8	19	5.1	4	3.0	2	12.5	40	7.6	1	3.3	102	5.9
Non-incapacitating (B)	58	16.0	26	11.7	9	11.3	44	11.9	5	3.8	2	12.5	62	11.8	3	10.0	209	12.0
Complaint of pain (C)	61	16.9	26	11.7	7	8.8	44	11.9	17	12.9	2	12.5	73	13.9	2	6.7	232	13.3
No injury (O)	166	45.9	115	51.6	31	38.8	214	57.7	89	67.4	8	50.0	246	46.7	22	73.3	891	51.2
Unknown	6	1.7	6	2.7	1	1.3	5	1.3	9	6.8	0	0.0	16	3.0	2	6.7	45	2.6
Total	362	100.0	223	100.0	80	100.0	371	100.0	132	100.0	16	100.0	527	100.0	30	100.0	1741	100.0

* Note: The Other category includes 16 auto carriers and six livestock carriers.

Table 5-15
Fatal Truck Involvements by Driver Injury Severity and Rollover, Fire, Ejection Status – Straight Trucks
TIFA 2003

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	58	22.1	19	18.6	33	15.8	26	11.2	20	2.2	1	2.2	157	9.0
Fire only	10	3.8	3	2.9	5	2.4	4	1.7	5	0.6	0	0.0	27	1.6
Ejection only	25	9.5	5	4.9	1	0.5	0	0.0	2	0.2	0	0.0	33	1.9
Rollover and fire	11	4.2	2	2.0	0	0.0	2	0.9	0	0.0	0	0.0	15	0.9
Rollover & ejection	57	21.8	2	2.0	3	1.4	0	0.0	0	0.0	0	0.0	62	3.6
Fire and ejection	0	0.0	0	0.0	1	0.5	0	0.0	0	0.0	0	0.0	1	0.1
Rollover, fire & eject	4	1.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.2
None	95	36.3	71	69.6	165	78.9	200	86.2	864	97.0	5	11.1	1400	80.4
Unknown	2	0.8	0	0.0	1	0.5	0	0.0	0	0.0	39	86.7	42	2.4
Total	262	100.0	102	100.0	209	100.0	232	100.0	891	100.0	45	100.0	1741	100.0

Tractors

This section provides descriptive statistics on tractor combinations involved in a fatal traffic accident in 2003. 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 3,263 of the 5,104 trucks (63.9%) involved in a fatal accident in 2003.
- 94.3% of the power units in tractor combinations were Class 8 (over 33,000 lbs.) Gross Vehicle Weight Rating (GVWR).
- The lightest tractor configurations weighed 10,000 pounds or less, and were bobtail tractors; the two heaviest tractor configurations were a tractor with one trailer and one “other tractor combinations,” both with a loaded weight over 170,000 pounds.
- 78.1% of tractor combinations weighed between 25,001 and 80,000 pounds.
- 27.6% of tractor combinations were empty at the time of the accident; while the most common cargo was general freight with 27.1% of tractor involvements.
- 88.1% of tractor-semitrailer configurations consisted of a three-axle tractor pulling a two-axle trailer. 58.6% of doubles (two trailers) consisted of a two-axle tractor with a one-axle first trailer and a two-axle second trailer.
- 67.9% of tractor combinations were operated by for-hire, interstate carriers; 14.2% of tractors were operated by private, interstate carriers.
- 19.1% of tractor combinations were on a local trip (within 50 miles of base) at the time of the accident; 20.4% were on a trip over 500 miles.
- 429 tractor drivers were fatally injured in a traffic accident; 46.2% of the fatalities occurred in ran-off-road crashes.

Configuration

Table 6-1
Fatal Truck Involvements by Tractor Configuration
TIFA 2003

Configuration	No.	Pct.
<i>Tractor, no trailers</i>		
Bobtail tractor	83	2.5
Tractor carrying cargo	4	0.1
<i>Subtotal</i>	87	2.7
<i>Tractor, 1 trailer</i>		
Tractor and semitrailer	3005	92.1
Tractor + other (nonsemitrailer)	8	0.2
Tractor + semitrailer + A dolly	1	0.0
Tractor + full trailer	1	0.0
<i>Subtotal</i>	3015	92.4
<i>Tractor, 2 trailers</i>		
Double with A dolly	99	3.0
Double, B train	3	0.1
Double with unknown dolly	2	0.1
Tractor + semitrailer + full trailer	51	1.6
Tractor + semitrailer + unknown	2	0.0
<i>Subtotal</i>	157	4.8
<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 + 2 saddlemount tractors	1	0.0
<i>Subtotal</i>	3	0.1
<i>Total tractors</i>	3263	100.0

**Table 6-2
Fatal Truck Involvements by Cargo Body Style and Truck Configuration – Tractor Combinations
TIFA 2003**

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	87	100.0	0	0.0	0	0.0	0	0.0	0	0.0	87	2.7
Van	0	0.0	1211	40.2	93	59.2	1	100.0	0	0.0	1305	40.0
Open top van	0	0.0	48	1.6	1	0.6	0	0.0	0	0.0	49	1.5
Refrigerated van	0	0.0	408	13.5	3	1.9	0	0.0	0	0.0	411	12.6
Livestock carrier	0	0.0	40	1.3	0	0.0	0	0.0	0	0.0	40	1.2
Flatbed	0	0.0	414	13.7	16	10.2	0	0.0	0	0.0	430	13.2
Lowboy	0	0.0	49	1.6	0	0.0	0	0.0	2	66.7	51	1.6
Flatbed with equip.	0	0.0	8	0.3	1	0.6	0	0.0	0	0.0	9	0.3
Flatbed with sides	0	0.0	29	1.0	1	0.6	0	0.0	0	0.0	30	0.9
Pole/logging	0	0.0	79	2.6	1	0.6	0	0.0	0	0.0	80	2.5
Tank:liquid/gaseous	0	0.0	236	7.8	2	1.3	0	0.0	0	0.0	238	7.3
Tank:dry bulk	0	0.0	43	1.4	4	2.5	0	0.0	0	0.0	47	1.4
Auto carrier	0	0.0	15	0.5	0	0.0	0	0.0	0	0.0	15	0.5
Dump	0	0.0	242	8.0	5	3.2	0	0.0	0	0.0	247	7.6
Hopper bottom	0	0.0	91	3.0	26	16.6	0	0.0	0	0.0	117	3.6
Refuse	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	5	0.2
Other	0	0.0	46	1.5	2	1.3	0	0.0	1	33.3	49	1.5
Unknown	0	0.0	51	1.7	2	1.3	0	0.0	0	0.0	53	1.6
Total	87	100.0	3015	100.0	157	100.0	1	100.0	3	100.0	3263	100.0

**Table 6-3
Fatal Truck Involvements by Cargo Type and Truck Configuration – Tractor Combinations
TIFA 2003**

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	83	95.4	783	26.0	32	20.4	0	0.0	1	33.3	899	27.6
General freight	0	0.0	802	26.6	82	52.2	1	100.0	0	0.0	885	27.1
Household goods	0	0.0	19	0.6	0	0.0	0	0.0	0	0.0	19	0.6
Building materials	0	0.0	34	1.1	0	0.0	0	0.0	0	0.0	34	1.0
Metal (coils, sheets)	0	0.0	98	3.3	1	0.6	0	0.0	0	0.0	99	3.0
Heavy machinery	0	0.0	57	1.9	0	0.0	0	0.0	1	33.3	58	1.8
Large objects	0	0.0	53	1.8	2	1.3	0	0.0	0	0.0	55	1.7
Motor vehicles	0	0.0	10	0.3	1	0.6	0	0.0	0	0.0	11	0.3
Piggyback/towaway	4	4.6	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1
Gases in bulk	0	0.0	15	0.5	0	0.0	0	0.0	0	0.0	15	0.5
Solids in bulk	0	0.0	323	10.7	22	14.0	0	0.0	0	0.0	345	10.6
Liquids in bulk	0	0.0	134	4.4	0	0.0	0	0.0	0	0.0	134	4.1
Explosives	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Logs/poles/lumber	0	0.0	121	4.0	6	3.8	0	0.0	0	0.0	127	3.9
Refrigerated foods	0	0.0	273	9.1	2	1.3	0	0.0	0	0.0	275	8.4
Mobile home	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	5	0.2
Farm products	0	0.0	71	2.4	2	1.3	0	0.0	0	0.0	73	2.2
Live animals	0	0.0	22	0.7	0	0.0	0	0.0	0	0.0	22	0.7
Other	0	0.0	16	0.5	0	0.0	0	0.0	0	0.0	16	0.5
Cargo, unk. type	0	0.0	16	0.5	0	0.0	0	0.0	0	0.0	16	0.5
Saddlemount tractor	0	0.0	0	0.0	0	0.0	0	0.0	1	33.3	1	0.0
Unknown	0	0.0	162	5.4	7	4.5	0	0.0	0	0.0	169	5.2
Total	87	100.0	3015	100.0	157	100.0	1	100.0	3	100.0	3263	100.0

Table 6-4
Fatal Truck Involvements by Cargo Type and Cargo Body Style – Tractor Combinations
TIFA 2003

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	83	95.4	300	23.0	12	24.5	52	12.7	19	47.5	108	25.1	17	33.3	2	22.2	6	20.0	27	33.8
General freight	0	0.0	806	61.8	2	4.1	50	12.2	0	0.0	23	5.3	2	3.9	0	0.0	0	0.0	0	0.0
Household goods	0	0.0	18	1.4	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Building materials	0	0.0	8	0.6	0	0.0	0	0.0	0	0.0	25	5.8	0	0.0	0	0.0	1	3.3	0	0.0
Metal (coils, sheets)	0	0.0	10	0.8	0	0.0	2	0.5	0	0.0	71	16.5	0	0.0	0	0.0	14	46.7	1	1.3
Heavy machinery	0	0.0	3	0.2	0	0.0	0	0.0	0	0.0	28	6.5	25	49.0	1	11.1	1	3.3	0	0.0
Large objects	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0	42	9.8	6	11.8	0	0.0	1	3.3	1	1.3
Motor vehicles	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	2	0.5	0	0.0	0	0.0	0	0.0	0	0.0
Piggyback/towaway	4	4.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Gases in bulk	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Solids in bulk	0	0.0	50	3.8	30	61.2	9	2.2	0	0.0	17	4.0	0	0.0	1	11.1	4	13.3	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
Explosives	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0
Logs/poles/lumber	0	0.0	4	0.3	1	2.0	1	0.2	0	0.0	69	16.0	0	0.0	1	11.1	1	3.3	50	62.5
Refrigerated foods	0	0.0	2	0.2	0	0.0	273	66.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Mobile home	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0
Farm products	0	0.0	7	0.5	4	8.2	10	2.4	0	0.0	22	5.1	0	0.0	1	11.1	1	3.3	0	0.0
Live animals	0	0.0	0	0.0	0	0.0	0	0.0	21	52.5	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0
Other	0	0.0	2	0.2	0	0.0	2	0.5	0	0.0	6	1.4	1	2.0	3	33.3	1	3.3	0	0.0
Cargo, unk. type	0	0.0	11	0.8	0	0.0	3	0.7	0	0.0	1	0.2	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	80	6.1	0	0.0	8	1.9	0	0.0	13	3.0	0	0.0	0	0.0	0	0.0	1	1.3
Total	87	100.0	1305	100.0	49	100.0	411	100.0	40	100.0	430	100.0	51	100.0	9	100.0	30	100.0	80	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	88	37.0	16	34.0	7	46.7	97	39.3	46	39.3	1	20.0	18	36.7	0	0.0	899	27.6
General freight	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	4.1	0	0.0	885	27.1
Household goods	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	19	0.6
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	34	1.0
Metal (coils, sheets)	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	99	3.0
Heavy machinery	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	58	1.8
Large objects	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	6.1	0	0.0	55	1.7
Motor vehicles	0	0.0	0	0.0	8	53.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	11	0.3
Piggyback/towaway	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1
Gases in bulk	15	6.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	15	0.5
Solids in bulk	1	0.4	29	61.7	0	0.0	135	54.7	55	47.0	3	60.0	11	22.4	0	0.0	345	10.6
Liquids in bulk	133	55.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	134	4.1
Explosives	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Logs/poles/lumber	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	127	3.9
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	275	8.4
Mobile home	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	8.2	0	0.0	5	0.2
Farm products	0	0.0	0	0.0	0	0.0	10	4.0	15	12.8	0	0.0	3	6.1	0	0.0	73	2.2
Live animals	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	22	0.7
Other	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.0	0	0.0	16	0.5
Cargo, unk. type	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.9	16	0.5
Saddlemount tractor	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.0	0	0.0	1	0.0
Unknown	1	0.4	2	4.3	0	0.0	4	1.6	1	0.9	1	20.0	6	12.2	52	98.1	169	5.2
Total	238	100.0	47	100.0	15	100.0	247	100.0	117	100.0	5	100.0	49	100.0	53	100.0	3263	100.0

**Table 6-5
Fatal Truck Involvements by Cargo Type and Cargo Body Style Groups – Tractor Combinations
TIFA 2003**

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	364	20.6	133	25.6	104	36.5	143	39.3	19	47.5	27	33.8	26	37.7	83	59.3	899	27.6
General freight	858	48.6	25	4.8	0	0.0	0	0.0	0	0.0	0	0.0	2	2.9	0	0.0	885	27.1
Household goods	19	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	19	0.6
Building materials	8	0.5	26	5.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	34	1.0
Metal (coils, sheets)	12	0.7	85	16.3	0	0.0	1	0.3	0	0.0	1	1.3	0	0.0	0	0.0	99	3.0
Heavy machinery	3	0.2	55	10.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	58	1.8
Large objects	2	0.1	49	9.4	0	0.0	0	0.0	0	0.0	1	1.3	3	4.3	0	0.0	55	1.7
Motor vehicles	1	0.1	2	0.4	0	0.0	0	0.0	0	0.0	0	0.0	8	11.6	0	0.0	11	0.3
Piggyback/towaway	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	2.9	4	0.1
Gases in bulk	0	0.0	0	0.0	15	5.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	15	0.5
Solids in bulk	89	5.0	22	4.2	30	10.5	190	52.2	0	0.0	0	0.0	14	20.3	0	0.0	345	10.6
Liquids in bulk	1	0.1	0	0.0	133	46.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	134	4.1
Explosives	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
Logs/poles/lumber	6	0.3	71	13.7	0	0.0	0	0.0	0	0.0	50	62.5	0	0.0	0	0.0	127	3.9
Refrigerated foods	275	15.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	275	8.4
Mobile home	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	4	5.8	0	0.0	5	0.2
Farm products	21	1.2	24	4.6	0	0.0	25	6.9	0	0.0	0	0.0	3	4.3	0	0.0	73	2.2
Live animals	0	0.0	1	0.2	0	0.0	0	0.0	21	52.5	0	0.0	0	0.0	0	0.0	22	0.7
Other	4	0.2	11	2.1	0	0.0	0	0.0	0	0.0	0	0.0	1	1.4	0	0.0	16	0.5
Cargo, unk. type	14	0.8	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.7	16	0.5
Saddlemount tractor	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.4	0	0.0	1	0.0
Unknown	88	5.0	13	2.5	3	1.1	5	1.4	0	0.0	1	1.3	7	10.1	52	37.1	169	5.2
Total	1765	100.0	520	100.0	285	100.0	364	100.0	40	100.0	80	100.0	69	100.0	140	100.0	3263	100.0

* Note: The Other category includes 15 auto carriers and five refuse trucks.

**Table 6-6
Fatal Truck Involvements by Gross Vehicle Weight Rating and Truck Configuration – Tractor Combinations
TIFA 2003**

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	3	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Class 7: 26,001-33,000	9	10.3	90	3.0	56	35.7	1	100.0	0	0.0	156	4.8
Class 8: 33,001+	77	88.5	2902	96.3	95	60.5	0	0.0	3	100.0	3077	94.3
Unknown	1	1.1	20	0.7	6	3.8	0	0.0	0	0.0	27	0.8
Total	87	100.0	3015	100.0	157	100.0	1	100.0	3	100.0	3263	100.0

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

Table 6-7
Fatal Truck Involvements by Gross Vehicle Weight Rating and Cargo Body Style – Tractor Combinations
TIFA 2003

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	0	0.0	2	0.4	0	0.0	0	0.0	1	2.5	0	0.0	0	0.0	0	0.0	3	0.1
Class 7: 26,001-33,000	108	6.1	9	1.7	6	2.1	9	2.5	0	0.0	0	0.0	12	17.4	12	8.6	156	4.8
Class 8: 33,001+	1652	93.6	506	97.3	279	97.9	351	96.4	39	97.5	80	100.0	56	81.2	114	81.4	3077	94.3
Unknown	5	0.3	3	0.6	0	0.0	4	1.1	0	0.0	0	0.0	1	1.4	14	10.0	27	0.8
Total	1765	100.0	520	100.0	285	100.0	364	100.0	40	100.0	80	100.0	69	100.0	140	100.0	3263	100.0

* Note: The Other category includes 15 auto carriers and five 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 2003

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	2	2.3	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
10,001-15,000	20	23.0	0	0.0	0	0.0	0	0.0	0	0.0	20	0.6
15,001-20,000	58	66.7	6	0.2	0	0.0	0	0.0	0	0.0	64	2.0
20,001-25,000	3	3.4	42	1.4	0	0.0	0	0.0	0	0.0	45	1.4
25,001-30,000	2	2.3	402	13.3	7	4.5	0	0.0	0	0.0	411	12.6
30,001-35,000	0	0.0	360	11.9	9	5.7	0	0.0	0	0.0	369	11.3
35,001-40,000	0	0.0	139	4.6	8	5.1	0	0.0	0	0.0	147	4.5
40,001-45,000	0	0.0	102	3.4	9	5.7	0	0.0	0	0.0	111	3.4
45,001-50,000	0	0.0	96	3.2	8	5.1	0	0.0	0	0.0	104	3.2
50,001-55,000	0	0.0	108	3.6	9	5.7	0	0.0	2	66.7	119	3.6
55,001-60,000	0	0.0	108	3.6	13	8.3	0	0.0	0	0.0	121	3.7
60,001-65,000	0	0.0	113	3.7	16	10.2	0	0.0	0	0.0	129	4.0
65,001-70,000	0	0.0	194	6.4	6	3.8	0	0.0	0	0.0	200	6.1
70,001-75,000	0	0.0	294	9.8	10	6.4	1	100.0	0	0.0	305	9.3
75,001-80,000	0	0.0	514	17.0	17	10.8	0	0.0	0	0.0	531	16.3
80,001-85,000	0	0.0	59	2.0	1	0.6	0	0.0	0	0.0	60	1.8
85,001-90,000	0	0.0	17	0.6	1	0.6	0	0.0	0	0.0	18	0.6
90,001-95,000	0	0.0	10	0.3	0	0.0	0	0.0	0	0.0	10	0.3
95,001-100,000	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	5	0.2
100,001-110,000	0	0.0	9	0.3	5	3.2	0	0.0	0	0.0	14	0.4
110,001-120,000	0	0.0	3	0.1	2	1.3	0	0.0	0	0.0	5	0.2
120,001-130,000	0	0.0	3	0.1	3	1.9	0	0.0	0	0.0	6	0.2
130,001-140,000	0	0.0	4	0.1	1	0.6	0	0.0	0	0.0	5	0.2
140,001-150,000	0	0.0	1	0.0	2	1.3	0	0.0	0	0.0	3	0.1
150,001-160,000	0	0.0	1	0.0	1	0.6	0	0.0	0	0.0	2	0.1
160,001-170,000	0	0.0	1	0.0	1	0.6	0	0.0	0	0.0	2	0.1
170,001 and over	0	0.0	1	0.0	0	0.0	0	0.0	1	33.3	2	0.1
Unknown	2	2.3	423	14.0	28	17.8	0	0.0	0	0.0	453	13.9
Total	87	100.0	3015	100.0	157	100.0	1	100.0	3	100.0	3263	100.0

**Table 6-9
Fatal Truck Involvements by Gross Combination Weight and Cargo Body Style – TRACTOR-SEMITRAILERS
TIFA 2003**

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	0.2	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	0.2
20,001-25,000	16	1.0	3	0.6	10	3.6	10	3.0	0	0.0	0	0.0	2	3.4	0	0.0	41	1.4
25,001-30,000	162	9.7	80	16.0	63	22.6	60	18.0	9	22.5	20	25.3	8	13.8	0	0.0	402	13.4
30,001-35,000	215	12.9	50	10.0	24	8.6	42	12.6	12	30.0	4	5.1	12	20.7	0	0.0	359	11.9
35,001-40,000	95	5.7	19	3.8	5	1.8	12	3.6	0	0.0	1	1.3	6	10.3	0	0.0	138	4.6
40,001-45,000	84	5.0	12	2.4	2	0.7	3	0.9	0	0.0	0	0.0	0	0.0	0	0.0	101	3.4
45,001-50,000	68	4.1	16	3.2	4	1.4	4	1.2	0	0.0	0	0.0	4	6.9	0	0.0	96	3.2
50,001-55,000	90	5.4	14	2.8	1	0.4	0	0.0	1	2.5	0	0.0	2	3.4	0	0.0	108	3.6
55,001-60,000	80	4.8	17	3.4	6	2.2	4	1.2	0	0.0	1	1.3	0	0.0	0	0.0	108	3.6
60,001-65,000	83	5.0	16	3.2	3	1.1	5	1.5	2	5.0	3	3.8	0	0.0	0	0.0	112	3.7
65,001-70,000	113	6.8	49	9.8	11	3.9	11	3.3	1	2.5	6	7.6	3	5.2	0	0.0	194	6.5
70,001-75,000	185	11.1	59	11.8	16	5.7	23	6.9	2	5.0	6	7.6	2	3.4	0	0.0	293	9.8
75,001-80,000	218	13.1	83	16.6	85	30.5	95	28.5	8	20.0	20	25.3	5	8.6	0	0.0	514	17.1
80,001-85,000	11	0.7	8	1.6	13	4.7	17	5.1	1	2.5	4	5.1	5	8.6	0	0.0	59	2.0
85,001-90,000	1	0.1	3	0.6	2	0.7	8	2.4	0	0.0	2	2.5	1	1.7	0	0.0	17	0.6
90,001-95,000	4	0.2	1	0.2	2	0.7	2	0.6	0	0.0	1	1.3	0	0.0	0	0.0	10	0.3
95,001-100,000	1	0.1	3	0.6	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	0.2
100,001-110,000	0	0.0	5	1.0	1	0.4	2	0.6	0	0.0	0	0.0	1	1.7	0	0.0	9	0.3
110,001-120,000	0	0.0	2	0.4	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
120,001-130,000	0	0.0	1	0.2	0	0.0	2	0.6	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
130,001-140,000	0	0.0	2	0.4	0	0.0	2	0.6	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1
140,001-150,000	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
150,001-160,000	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
160,001-170,000	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
170,001-180,000	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
Unknown	236	14.2	55	11.0	30	10.8	26	7.8	4	10.0	11	13.9	7	12.1	51	100.0	420	14.0
Total	1666	100.0	499	100.0	279	100.0	333	100.0	40	100.0	79	100.0	58	100.0	51	100.0	3005	100.0

Table 6-10
Fatal Truck Involvements by Gross Combination Weight and Cargo Body Style – DOUBLES
TIFA 2003

Gross combination weight (lbs)	Van		Flatbed		Tank		Dump		Pole/logging		Other		None/Unk		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
25,001-30,000	2	2.1	1	5.6	2	33.3	1	3.2	0	0.0	1	50.0	0	0.0	7	4.5
30,001-35,000	3	3.1	2	11.1	0	0.0	4	12.9	0	0.0	0	0.0	0	0.0	9	5.7
35,001-40,000	3	3.1	0	0.0	1	16.7	4	12.9	0	0.0	0	0.0	0	0.0	8	5.1
40,001-45,000	4	4.1	2	11.1	0	0.0	3	9.7	0	0.0	0	0.0	0	0.0	9	5.7
45,001-50,000	7	7.2	0	0.0	0	0.0	1	3.2	0	0.0	0	0.0	0	0.0	8	5.1
50,001-55,000	8	8.2	0	0.0	0	0.0	1	3.2	0	0.0	0	0.0	0	0.0	9	5.7
55,001-60,000	13	13.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	13	8.3
60,001-65,000	15	15.5	1	5.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	16	10.2
65,001-70,000	6	6.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	3.8
70,001-75,000	7	7.2	3	16.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	10	6.4
75,001-80,000	1	1.0	3	16.7	3	50.0	9	29.0	0	0.0	1	50.0	0	0.0	17	10.8
80,001-85,000	0	0.0	1	5.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.6
85,001-90,000	1	1.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.6
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
95,001-100,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100,001-110,000	2	2.1	2	11.1	0	0.0	1	3.2	0	0.0	0	0.0	0	0.0	5	3.2
110,001-120,000	0	0.0	1	5.6	0	0.0	0	0.0	1	100.0	0	0.0	0	0.0	2	1.3
120,001-130,000	1	1.0	0	0.0	0	0.0	2	6.5	0	0.0	0	0.0	0	0.0	3	1.9
130,001-140,000	0	0.0	0	0.0	0	0.0	1	3.2	0	0.0	0	0.0	0	0.0	1	0.6
140,001-150,000	0	0.0	0	0.0	0	0.0	2	6.5	0	0.0	0	0.0	0	0.0	2	1.3
150,001-160,000	0	0.0	0	0.0	0	0.0	1	3.2	0	0.0	0	0.0	0	0.0	1	0.6
160,001-170,000	0	0.0	1	5.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.6
Unknown	24	24.7	1	5.6	0	0.0	1	3.2	0	0.0	0	0.0	2	100.0	28	17.8
Total	97	100.0	18	100.0	6	100.0	31	100.0	1	100.0	2	100.0	2	100.0	157	100.0

Table 6-11
Fatal Truck Involvements by Empty Combination Weight and Truck Configuration – Tractor Combinations
TIFA 2003

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	2	2.3	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
10,001-15,000	21	24.1	2	0.1	0	0.0	0	0.0	0	0.0	23	0.7
15,001-20,000	62	71.3	15	0.5	1	0.6	0	0.0	1	33.3	79	2.4
20,001-25,000	2	2.3	144	4.8	4	2.5	0	0.0	0	0.0	150	4.6
25,001-30,000	0	0.0	1185	39.3	37	23.6	0	0.0	0	0.0	1222	37.5
30,001-35,000	0	0.0	1298	43.1	56	35.7	0	0.0	0	0.0	1354	41.5
35,001-40,000	0	0.0	177	5.9	37	23.6	0	0.0	0	0.0	214	6.6
40,001-45,000	0	0.0	21	0.7	9	5.7	1	100.0	0	0.0	31	1.0
45,001-50,000	0	0.0	6	0.2	5	3.2	0	0.0	0	0.0	11	0.3
50,001-55,000	0	0.0	2	0.1	1	0.6	0	0.0	1	33.3	4	0.1
55,001-60,000	0	0.0	2	0.1	2	1.3	0	0.0	0	0.0	4	0.1
60,001-65,000	0	0.0	1	0.0	0	0.0	0	0.0	1	33.3	2	0.1
65,001-70,000	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
70,001-75,000	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
75,001-80,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
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	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100,001 or more	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Unknown	0	0.0	158	5.2	5	3.2	0	0.0	0	0.0	163	5.0
Total	87	100.0	3015	100.0	157	100.0	1	100.0	3	100.0	3263	100.0

Table 6-12
Fatal Truck Involvements by Empty Combination Weight and Cargo Body Style – TRACTOR-SEMITRAILERS
TIFA 2003

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	10	0.6	1	0.2	0	0.0	0	0.0	1	2.5	0	0.0	1	1.7	0	0.0	13	0.4
20,001-25,000	56	3.4	25	5.0	20	7.2	25	7.5	0	0.0	14	17.7	1	1.7	0	0.0	141	4.7
25,001-30,000	502	30.1	290	58.1	153	54.8	157	47.1	19	47.5	48	60.8	16	27.6	0	0.0	1185	39.4
30,001-35,000	937	56.2	130	26.1	73	26.2	105	31.5	20	50.0	12	15.2	20	34.5	0	0.0	1297	43.2
35,001-40,000	106	6.4	19	3.8	15	5.4	26	7.8	0	0.0	1	1.3	9	15.5	0	0.0	176	5.9
40,001-45,000	2	0.1	11	2.2	4	1.4	3	0.9	0	0.0	0	0.0	1	1.7	0	0.0	21	0.7
45,001-50,000	0	0.0	3	0.6	1	0.4	1	0.3	0	0.0	0	0.0	1	1.7	0	0.0	6	0.2
50,001-55,000	0	0.0	1	0.2	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
55,001-60,000	1	0.1	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
60,001-65,000	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
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	1	1.7	0	0.0	1	0.0
75,001-80,000	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
80,001-85,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.7	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	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	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	0	0.0	0	0.0	0	0.0
100,001 or more	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.7	0	0.0	1	0.0
Unknown	52	3.1	19	3.8	13	4.7	13	3.9	0	0.0	4	5.1	6	10.3	51	100.0	158	5.3
Total	1666	100.0	499	100.0	279	100.0	333	100.0	40	100.0	79	100.0	58	100.0	51	100.0	3005	100.0

Table 6-13
Fatal Truck Involvements by Empty Combination Weight and Cargo Body Style – DOUBLES
TIFA 2003

Empty combination wt. (lbs)	Van		Flatbed		Tank		Dump		Pole/Logging		Other		None/Unk		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
15,001-20,000	0	0.0	0	0.0	0	0.0	1	3.2	0	0.0	0	0.0	0	0.0	1	0.6
20,001-25,000	0	0.0	1	5.6	1	16.7	2	6.5	0	0.0	0	0.0	0	0.0	4	2.5
25,001-30,000	18	18.6	7	38.9	4	66.7	6	19.4	0	0.0	2	100.0	0	0.0	37	23.6
30,001-35,000	47	48.5	4	22.2	0	0.0	5	16.1	0	0.0	0	0.0	0	0.0	56	35.7
35,001-40,000	25	25.8	3	16.7	1	16.7	7	22.6	1	100.0	0	0.0	0	0.0	37	23.6
40,001-45,000	4	4.1	1	5.6	0	0.0	4	12.9	0	0.0	0	0.0	0	0.0	9	5.7
45,001-50,000	1	1.0	1	5.6	0	0.0	3	9.7	0	0.0	0	0.0	0	0.0	5	3.2
50,001-55,000	0	0.0	0	0.0	0	0.0	1	3.2	0	0.0	0	0.0	0	0.0	1	0.6
55,001-60,000	0	0.0	1	5.6	0	0.0	1	3.2	0	0.0	0	0.0	0	0.0	2	1.3
Unknown	2	2.1	0	0.0	0	0.0	1	3.2	0	0.0	0	0.0	2	100.0	5	3.2
Total	97	100.0	18	100.0	6	100.0	31	100.0	1	100.0	2	100.0	2	100.0	157	100.0

Table 6-14A
Fatal Truck Involvements by Axle Combinations – Tractors, No Trailers
TIFA 2003

Power unit axles	No.	Pct.
2	14	16.9
3	71	81.6
4	2	2.3
Total	87	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 6-14B
Fatal Truck Involvements by Axle Combinations – TRACTOR-SEMITRAILERS, TIFA 2003

Power unit axles	1st trailer axles	No.	Pct.
2	1	31	1.0
2	2	113	3.8
2	3	2	0.1
2	4	1	0.0
3	1	4	0.1
3	2	2646	88.1
3	3	90	3.0
3	4	9	0.3
3	5	2	0.1
3	6	1	0.0
3	7	1	0.0
3	8	5	0.2
4	2	6	0.2
4	3	12	0.4
4	4	5	0.2
4	5	0	0.0
4	6	1	0.0
Unknown		76	2.5
Total		3005	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 2003

Power unit axles	1st trailer axles	2nd trailer axles	No.	Pct.
2	1	2	92	58.6
3	1	2	28	17.8
3	2	2	11	7.0
3	2	3	3	1.9
3	2	4	3	1.9
3	3	2	2	1.3
3	3	3	1	0.6
3	3	5	4	2.5
3	4	2	1	0.6
3	4	4	2	1.3
3	5	3	1	0.6
4	2	3	1	0.6
4	3	2	1	0.6
4	3	4	1	0.6
Unknown			6	3.8
Total			157	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 2003

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	14	16.1	434	14.4	15	9.6	0	0.0	0	0.0	463	14.2
Interstate for-hire	49	56.3	2063	68.4	99	63.1	1	100.0	3	100.0	2215	67.9
Intrastate private	4	4.6	188	6.2	13	8.3	0	0.0	0	0.0	205	6.3
Intrastate for-hire	12	13.8	202	6.7	21	13.4	0	0.0	0	0.0	235	7.2
Government owned	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Daily rental	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Unknown	8	9.2	124	4.1	9	5.7	0	0.0	0	0.0	141	4.3
Total	87	100.0	3015	100.0	157	100.0	1	100.0	3	100.0	3263	100.0

Table 6-16
Fatal Truck Involvements by Carrier Type and Cargo Body Style – Tractor Combinations
TIFA 2003

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	223	12.6	79	15.2	50	17.5	55	15.1	10	25.0	13	16.3	15	21.7	18	12.9	463	14.2
Interstate for-hire	1401	79.4	349	67.1	164	57.5	150	41.2	27	67.5	30	37.5	29	42.0	65	46.4	2215	67.9
Intrastate private	40	2.3	43	8.3	28	9.8	54	14.8	2	5.0	20	25.0	14	20.3	4	2.9	205	6.3
Intrastate for-hire	48	2.7	28	5.4	37	13.0	89	24.5	1	2.5	10	12.5	7	10.1	15	10.7	235	7.2
Government owned	1	0.1	1	0.2	0	0.0	2	0.5	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1
Daily rental	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	52	2.9	20	3.8	6	2.1	14	3.8	0	0.0	7	8.8	4	5.8	38	27.1	141	4.3
Total	1765	100.0	520	100.0	285	100.0	364	100.0	40	100.0	80	100.0	69	100.0	140	100.0	3263	100.0

* Note: The Other category includes 15 auto carriers and five refuse trucks.

Table 6-17
Fatal Truck Involvements by Trip Type and Cargo Body Style – Tractor Combinations
TIFA 2003

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	165	9.3	87	16.7	79	27.7	183	50.3	6	15.0	30	37.5	26	37.7	46	32.9	622	19.1
51-100 miles	165	9.3	71	13.7	65	22.8	75	20.6	6	15.0	25	31.3	14	20.3	16	11.4	437	13.4
101-200	205	11.6	75	14.4	46	16.1	47	12.9	5	12.5	3	3.8	10	14.5	2	1.4	393	12.0
201-500	384	21.8	114	21.9	42	14.7	19	5.2	11	27.5	5	6.3	5	7.2	6	4.3	586	18.0
Over 500	537	30.4	97	18.7	14	4.9	3	0.8	6	15.0	2	2.5	5	7.2	2	1.4	666	20.4
Unk over-the-road dist	79	4.5	24	4.6	13	4.6	10	2.7	3	7.5	5	6.3	1	1.4	2	1.4	137	4.2
Unknown	230	13.0	52	10.0	26	9.1	27	7.4	3	7.5	10	12.5	8	11.6	66	47.1	422	12.9
Total	1765	100.0	520	100.0	285	100.0	364	100.0	40	100.0	80	100.0	69	100.0	140	100.0	3263	100.0

* Note: The Other category includes 15 auto carriers and five refuse trucks.

**Table 6-18
Fatal Truck Involvements by Route Signing and Cargo Body Style – Tractor Combinations
TIFA 2003**

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	793	44.9	135	26.0	59	20.7	38	10.4	10	25.0	4	5.0	20	29.0	43	30.7	1102	33.8
US highway	467	26.5	172	33.1	69	24.2	113	31.0	17	42.5	23	28.8	13	18.8	31	22.1	905	27.7
State highway	373	21.1	152	29.2	98	34.4	139	38.2	11	27.5	34	42.5	19	27.5	32	22.9	858	26.3
County road	34	1.9	31	6.0	30	10.5	42	11.5	0	0.0	11	13.8	9	13.0	15	10.7	172	5.3
Township	7	0.4	2	0.4	3	1.1	3	0.8	0	0.0	1	1.3	0	0.0	1	0.7	17	0.5
Municipality	45	2.5	15	2.9	10	3.5	13	3.6	0	0.0	2	2.5	4	5.8	13	9.3	102	3.1
Frontage road	5	0.3	2	0.4	7	2.5	2	0.5	0	0.0	0	0.0	0	0.0	1	0.7	17	0.5
Other	27	1.5	7	1.3	6	2.1	13	3.6	2	5.0	3	3.8	3	4.3	3	2.1	64	2.0
Unknown	14	0.8	4	0.8	3	1.1	1	0.3	0	0.0	2	2.5	1	1.4	1	0.7	26	0.8
Total	1765	100.0	520	100.0	285	100.0	364	100.0	40	100.0	80	100.0	69	100.0	140	100.0	3263	100.0

* Note: The Other category includes 15 auto carriers and five refuse trucks.

**Table 6-19
Fatal Truck Involvements by Land Use and Cargo Body Style – Tractor Combinations
TIFA 2003**

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	526	29.8	129	24.8	75	26.3	76	20.9	8	20.0	10	12.5	20	29.0	56	40.0	900	27.6
Rural	1225	69.4	386	74.2	206	72.3	287	78.8	32	80.0	68	85.0	48	69.6	83	59.3	2335	71.6
Unknown	14	0.8	5	1.0	4	1.4	1	0.3	0	0.0	2	2.5	1	1.4	1	0.7	28	0.9
Total	1765	100.0	520	100.0	285	100.0	364	100.0	40	100.0	80	100.0	69	100.0	140	100.0	3263	100.0

* Note: The Other category includes 15 auto carriers and five refuse trucks.

**Table 6-20
Fatal Truck Involvements by Light Condition and Cargo Body Style – Tractor Combinations
TIFA 2003**

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	937	53.1	322	61.9	167	58.6	263	72.3	23	57.5	59	73.8	45	65.2	65	46.4	1881	57.6
Dark	594	33.7	133	25.6	77	27.0	66	18.1	13	32.5	14	17.5	17	24.6	40	28.6	954	29.2
Dark but lighted	172	9.7	46	8.8	25	8.8	19	5.2	3	7.5	4	5.0	5	7.2	26	18.6	300	9.2
Dawn	43	2.4	14	2.7	12	4.2	12	3.3	1	2.5	3	3.8	1	1.4	5	3.6	91	2.8
Dusk	18	1.0	5	1.0	4	1.4	4	1.1	0	0.0	0	0.0	1	1.4	4	2.9	36	1.1
Unknown	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
Total	1765	100.0	520	100.0	285	100.0	364	100.0	40	100.0	80	100.0	69	100.0	140	100.0	3263	100.0

* Note: The Other category includes 15 auto carriers and five refuse trucks.

Accident description

Table 6-21
Fatal Truck Involvements by Manner of Collision and Cargo Body Style – Tractor Combinations
TIFA 2003

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	362	20.5	92	17.7	79	27.7	50	13.7	10	25.0	17	21.3	7	10.1	42	30.0	659	20.2
Rear-end	406	23.0	119	22.9	40	14.0	63	17.3	5	12.5	11	13.8	17	24.6	30	21.4	691	21.2
Head-on	262	14.8	84	16.2	45	15.8	76	20.9	11	27.5	13	16.3	10	14.5	17	12.1	518	15.9
Front-to-side: same dir	52	2.9	16	3.1	7	2.5	7	1.9	1	2.5	3	3.8	3	4.3	5	3.6	94	2.9
Front-to-side: opp dir	229	13.0	68	13.1	37	13.0	44	12.1	2	5.0	14	17.5	11	15.9	14	10.0	419	12.8
Front-to-side: right angle	298	16.9	98	18.8	47	16.5	102	28.0	9	22.5	18	22.5	7	10.1	20	14.3	599	18.4
Front-to-side: other	12	0.7	3	0.6	0	0.0	4	1.1	0	0.0	0	0.0	3	4.3	4	2.9	26	0.8
Sideswipe:same dir	68	3.9	14	2.7	9	3.2	5	1.4	2	5.0	0	0.0	4	5.8	5	3.6	107	3.3
Sideswipe:opp dir	57	3.2	17	3.3	14	4.9	12	3.3	0	0.0	2	2.5	6	8.7	2	1.4	110	3.4
Rear-to-side	6	0.3	3	0.6	3	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	12	0.4
Other	7	0.4	4	0.8	1	0.4	0	0.0	0	0.0	1	1.3	0	0.0	1	0.7	14	0.4
Unknown	6	0.3	2	0.4	3	1.1	1	0.3	0	0.0	1	1.3	1	1.4	0	0.0	14	0.4
Total	1765	100.0	520	100.0	285	100.0	364	100.0	40	100.0	80	100.0	69	100.0	140	100.0	3263	100.0

* Note: The Other category includes 15 auto carriers and five refuse trucks.

Table 6-22
Fatal Truck Involvements by Accident Type and Driver Injury Severity – Tractor Combinations
TIFA 2003

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	198	46.2	7	6.4	8	2.5	1	0.3	11	0.5	1	2.5	226	6.9
Hit object in road	24	5.6	3	2.7	3	1.0	5	1.5	181	8.9	6	15.0	222	6.8
<i>Same direction, same trafficway</i>														
Rearend, truck striking	43	10.0	9	8.2	27	8.6	26	7.9	117	5.7	0	0.0	222	6.8
Rearend, truck struck	5	1.2	4	3.6	16	5.1	23	7.0	254	12.5	3	7.5	305	9.3
Sideswipe, in other's lane	8	1.9	1	0.9	1	0.3	1	0.3	20	1.0	0	0.0	31	1.0
Sideswipe, in truck's lane	3	0.7	1	0.9	6	1.9	3	0.9	105	5.1	0	0.0	118	3.6
<i>Opposite direction, same trafficway</i>														
Head-on, in other's lane	10	2.3	5	4.5	7	2.2	5	1.5	11	0.5	0	0.0	38	1.2
Head-on, in truck's lane	15	3.5	20	18.2	72	22.9	79	24.0	177	8.7	0	0.0	363	11.1
Sideswipe, in other's lane	14	3.3	5	4.5	9	2.9	7	2.1	29	1.4	0	0.0	64	2.0
Sideswipe, in truck's lane	13	3.0	10	9.1	44	14.0	43	13.1	284	13.9	2	5.0	396	12.1
<i>Change trafficway, one vehicle turning</i>														
Truck turn across path	1	0.2	1	0.9	3	1.0	7	2.1	91	4.5	1	2.5	104	3.2
Other turn across path	6	1.4	4	3.6	15	4.8	25	7.6	124	6.1	1	2.5	175	5.4
<i>Intersecting paths, both going straight</i>														
Truck into side of other	12	2.8	14	12.7	31	9.8	33	10.0	160	7.8	2	5.0	252	7.7
Other into side of truck	4	0.9	5	4.5	14	4.4	11	3.3	85	4.2	0	0.0	119	3.6
<i>Other accident types</i>														
Truck backed into other	0	0.0	0	0.0	0	0.0	0	0.0	16	0.8	1	2.5	17	0.5
Other backed into truck	0	0.0	0	0.0	1	0.3	0	0.0	4	0.2	0	0.0	5	0.2
Untripped roll	19	4.4	1	0.9	5	1.6	1	0.3	2	0.1	0	0.0	28	0.9
Other	40	9.3	18	16.4	42	13.3	49	14.9	321	15.7	21	52.5	491	15.0
Unknown	14	3.3	2	1.8	11	3.5	10	3.0	48	2.4	2	5.0	87	2.7
Total	429	100.0	110	100.0	315	100.0	329	100.0	2040	100.0	40	100.0	3263	100.0

Table 6-23
Fatal Truck Involvements by Driver Injury Severity and Cargo Body Style – Tractor Combinations
TIFA 2003

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)	198	11.2	79	15.2	68	23.9	37	10.2	3	7.5	16	20.0	8	11.6	20	14.3	429	13.1
Incapacitating (A)	52	2.9	13	2.5	11	3.9	18	4.9	3	7.5	5	6.3	3	4.3	5	3.6	110	3.4
Non-incapacitating (B)	167	9.5	46	8.8	28	9.8	44	12.1	6	15.0	6	7.5	5	7.2	13	9.3	315	9.7
Complaint of pain (C)	178	10.1	52	10.0	23	8.1	44	12.1	2	5.0	12	15.0	8	11.6	10	7.1	329	10.1
No injury (O)	1151	65.2	322	61.9	154	54.0	220	60.4	26	65.0	40	50.0	42	60.9	85	60.7	2040	62.5
Unknown	19	1.1	8	1.5	1	0.4	1	0.3	0	0.0	1	1.3	3	4.3	7	5.0	40	1.2
Total	1765	100.0	520	100.0	285	100.0	364	100.0	40	100.0	80	100.0	69	100.0	140	100.0	3263	100.0

* Note: The Other category includes 15 auto carriers and five refuse trucks.

Table 6-24
Fatal Truck Involvements by Driver Injury Severity and Rollover, Fire, Ejection Status – Tractor Combinations
TIFA 2003

Rollover, fire, 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	118	27.5	31	28.2	51	16.2	30	9.1	56	2.7	2	5.0	288	8.8
Fire only	55	12.8	11	10.0	28	8.9	16	4.9	27	1.3	0	0.0	137	4.2
Ejection only	36	8.4	3	2.7	0	0.0	0	0.0	1	0.0	0	0.0	40	1.2
Rollover and fire	32	7.5	5	4.5	7	2.2	0	0.0	1	0.0	0	0.0	45	1.4
Rollover and ejection	56	13.1	1	0.9	1	0.3	1	0.3	0	0.0	0	0.0	59	1.8
Fire and ejection	7	1.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	0.2
Rollover, fire & eject	7	1.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	0.2
None	112	26.1	59	53.6	228	72.4	282	85.7	1953	95.7	11	27.5	2645	81.1
Unknown	6	1.4	0	0.0	0	0.0	0	0.0	2	0.1	27	67.5	35	1.1
Total	429	100.0	110	100.0	315	100.0	329	100.0	2040	100.0	40	100.0	3263	100.0

Table 6-25
Fatal Truck Involvements by Rollover Status and Gross Combination Weight – TRACTOR-SEMITRAILERS
TIFA 2003

Gross combination wt. (lbs)	No rollover		First event		Subsequent event		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
15,001-20,000	4	0.2	0	0.0	1	0.4	5	0.2
20,001-25,000	39	1.5	0	0.0	2	0.8	41	1.4
25,001-30,000	384	14.6	4	3.6	14	5.3	402	13.4
30,001-35,000	345	13.1	6	5.5	8	3.0	359	11.9
35,001-40,000	131	5.0	2	1.8	5	1.9	138	4.6
40,001-45,000	94	3.6	2	1.8	5	1.9	101	3.4
45,001-50,000	87	3.3	1	0.9	8	3.0	96	3.2
50,001-55,000	94	3.6	5	4.5	9	3.4	108	3.6
55,001-60,000	91	3.5	5	4.5	12	4.6	108	3.6
60,001-65,000	95	3.6	4	3.6	13	4.9	112	3.7
65,001-70,000	161	6.1	9	8.2	24	9.1	194	6.5
70,001-75,000	240	9.1	13	11.8	40	15.2	293	9.8
75,001-80,000	404	15.3	38	34.5	72	27.4	514	17.1
80,001-85,000	47	1.8	5	4.5	7	2.7	59	2.0
85,001-90,000	12	0.5	3	2.7	2	0.8	17	0.6
90,001-95,000	9	0.3	0	0.0	1	0.4	10	0.3
95,001-100,000	2	0.1	0	0.0	3	1.1	5	0.2
100,001-110,000	9	0.3	0	0.0	0	0.0	9	0.3
110,001-120,000	3	0.1	0	0.0	0	0.0	3	0.1
120,001-130,000	2	0.1	1	0.9	0	0.0	3	0.1
130,001-140,000	4	0.2	0	0.0	0	0.0	4	0.1
140,001-150,000	1	0.0	0	0.0	0	0.0	1	0.0
150,001-160,000	1	0.0	0	0.0	0	0.0	1	0.0
160,001-170,000	0	0.0	0	0.0	1	0.4	1	0.0
170,001-180,000	1	0.0	0	0.0	0	0.0	1	0.0
Unknown	372	14.1	12	10.9	36	13.7	420	14.0
Total	2632	100.0	110	100.0	263	100.0	3005	100.0

Table 6-26
Fatal Truck Involvements by Jackknife Status and Gross Combination Weight – TRACTOR-SEMITRAILERS
TIFA 2003

Gross combination wt. (lbs)	No jackknife		First event		Subsequent event		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
15,001-20,000	4	0.1	0	0.0	1	0.7	5	0.2
20,001-25,000	34	1.2	2	3.4	5	3.4	41	1.4
25,001-30,000	356	12.7	14	23.7	32	21.8	402	13.4
30,001-35,000	325	11.6	10	16.9	24	16.3	359	11.9
35,001-40,000	125	4.5	1	1.7	12	8.2	138	4.6
40,001-45,000	94	3.4	3	5.1	4	2.7	101	3.4
45,001-50,000	88	3.1	3	5.1	5	3.4	96	3.2
50,001-55,000	100	3.6	0	0.0	8	5.4	108	3.6
55,001-60,000	100	3.6	3	5.1	5	3.4	108	3.6
60,001-65,000	107	3.8	3	5.1	2	1.4	112	3.7
65,001-70,000	185	6.6	2	3.4	7	4.8	194	6.5
70,001-75,000	281	10.0	2	3.4	10	6.8	293	9.8
75,001-80,000	489	17.5	7	11.9	18	12.2	514	17.1
80,001-85,000	59	2.1	0	0.0	0	0.0	59	2.0
85,001-90,000	17	0.6	0	0.0	0	0.0	17	0.6
90,001-95,000	9	0.3	0	0.0	1	0.7	10	0.3
95,001-100,000	5	0.2	0	0.0	0	0.0	5	0.2
100,001-110,000	9	0.3	0	0.0	0	0.0	9	0.3
110,001-120,000	3	0.1	0	0.0	0	0.0	3	0.1
120,001-130,000	3	0.1	0	0.0	0	0.0	3	0.1
130,001-140,000	3	0.1	0	0.0	1	0.7	4	0.1
140,001-150,000	1	0.0	0	0.0	0	0.0	1	0.0
150,001-160,000	1	0.0	0	0.0	0	0.0	1	0.0
160,001-170,000	1	0.0	0	0.0	0	0.0	1	0.0
170,001-180,000	1	0.0	0	0.0	0	0.0	1	0.0
Unknown	399	14.3	9	15.3	12	8.2	420	14.0
Total	2799	100.0	59	100.0	147	100.0	3005	100.0

Longer combination vehicles

This section provides descriptive statistics on longer combination vehicles (LCVs) involved in a fatal traffic accident in 2003. 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 2003

Configuration	No.	Pct.
<i>Longer combination vehicles</i>		
Double with A dolly	11	7.0
Double, B train	2	1.3
Tractor + semi + full	17	10.8
Triple with A dollies	1	0.6
<i>Subtotal</i>	31	19.6
<i>Non-LCV tractor and two trailers</i>		
<i>STAA double</i>		
Double with A dolly	80	50.6
Double, B train	1	0.6
Double, unknown dolly	1	0.6
Tractor + semi + full	31	19.6
<i>Subtotal</i>	113	71.5
<i>Unknown double</i>		
Double with A dolly	8	5.1
Double, unknown dolly	1	0.6
Tractor + semi + full	3	1.9
Tractor + semi + unknown	2	1.3
<i>Subtotal</i>	14	8.9
Total	158	100.0

Table 7-2
Fatal Truck Involvements of LCVs and "STAA Doubles" by Year
TIFA 1999-2003

Combination type	1999		2000		2001		2002		2003		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<i>Longer combination vehicles</i>												
Overlength	16	10.5	12	7.3	18	10.8	13	8.4	13	8.2	72	9.0
Overweight	14	9.2	10	6.1	7	4.2	4	2.6	4	2.5	39	4.9
Both	11	7.2	19	11.6	12	7.2	13	8.4	13	8.2	68	8.5
Triple	2	1.3	2	1.2	0	0.0	1	0.6	1	0.6	6	0.8
<i>Subtotal</i>	43	28.1	43	26.2	37	22.3	31	20.0	31	19.6	185	23.2
<i>Non-LCV tractor and two trailers</i>												
STAA double	98	64.1	112	68.3	103	62.0	109	70.3	113	71.5	535	67.2
Unknown double	12	7.8	9	5.5	26	15.7	15	9.7	14	8.9	76	9.5
Total	153	100.0	164	100.0	166	100.0	155	100.0	158	100.0	796	100.0

Table 7-3
Fatal Truck Involvements for Common LCV Types
TIFA 2003

Combination type	No.	Pct.
Rocky Mountain double	12	38.7
Turnpike double	2	6.5
Other LCV	12	38.7
Overweight	4	12.9
Triple	1	3.2
Total	31	100.0

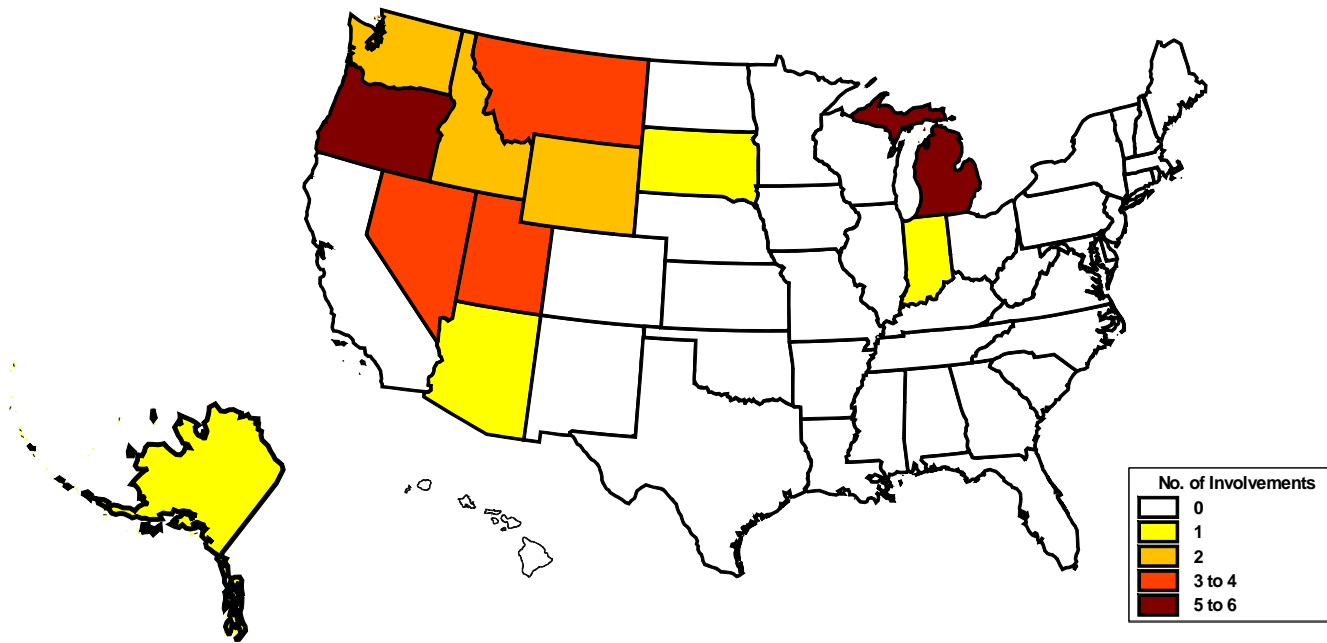


Figure 7-1: Fatal LCV Involvements by State, TIFA 2003

**Table 7-4
Fatal Truck Involvements by State and LCV Type
TIFA 2003**

State	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Alaska	0	0.0	0	0.0	1	7.7	0	0.0	1	3.2
Arizona	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
Indiana	0	0.0	0	0.0	1	7.7	0	0.0	1	3.2
Michigan	1	7.7	4	100.0	0	0.0	0	0.0	5	16.1
Montana	1	7.7	0	0.0	3	23.1	0	0.0	4	12.9
Nevada	2	15.4	0	0.0	1	7.7	0	0.0	3	9.7
Oregon	0	0.0	0	0.0	5	38.5	1	100.0	6	19.4
South Dakota	1	7.7	0	0.0	0	0.0	0	0.0	1	3.2
Utah	2	15.4	0	0.0	1	7.7	0	0.0	3	9.7
Washington	1	7.7	0	0.0	1	7.7	0	0.0	2	6.5
Wyoming	2	15.4	0	0.0	0	0.0	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 2003**

Combination type	Involvements	Total fatalities	Fatalities per involvement
Longer combination vehicles			
Overlength	13	17	1.31
Overweight	4	5	1.25
Both	13	15	1.15
Triple	1	1	1.00
Subtotal	31	38	1.23
Non-LCV tractor and two trailers			
"STAA double"	113	123	1.09
Unknown double	14	15	1.07
Subtotal	127	138	1.09
Other tractor combination			
Tractor-semitrailer	3005	3187	1.06

Table 7-6
Fatal Truck Involvements by Total Length and LCV Type
TIFA 2003

Length (in feet)	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
51-55	0	0.0	1	25.0	0	0.0	0	0.0	1	3.2
56-60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
61-65	0	0.0	1	25.0	0	0.0	0	0.0	1	3.2
66-70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
71-75	1	7.7	2	50.0	0	0.0	0	0.0	3	9.7
76-80	0	0.0	0	0.0	2	15.4	0	0.0	2	6.5
81-85	2	15.4	0	0.0	2	15.4	0	0.0	4	12.9
86-90	2	15.4	0	0.0	2	15.4	0	0.0	4	12.9
91-95	1	7.7	0	0.0	3	23.1	0	0.0	4	12.9
96-100	4	30.8	0	0.0	2	15.4	0	0.0	6	19.4
101 +	3	23.1	0	0.0	2	15.4	1	100.0	6	19.4
Total	13	100.0	4	100.0	13	100.0	1	100.0	31	100.0

Table 7-7
Fatal Truck Involvements by Gross Combination Weight and LCV Type
TIFA 2003

Gross combination weight (in lbs)	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
25,001-30,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30,001-35,000	2	15.4	0	0.0	0	0.0	0	0.0	2	6.5
35,001-40,000	1	7.7	0	0.0	0	0.0	0	0.0	1	3.2
40,001-45,000	4	30.8	0	0.0	0	0.0	0	0.0	4	12.9
45,001-50,000	2	15.4	0	0.0	0	0.0	0	0.0	2	6.5
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	1	7.7	0	0.0	0	0.0	1	100.0	2	6.5
75,001-80,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80,001-85,000	0	0.0	0	0.0	1	7.7	0	0.0	1	3.2
85,001-90,000	0	0.0	0	0.0	1	7.7	0	0.0	1	3.2
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	5	38.5	0	0.0	5	16.1
110,001-120,000	0	0.0	1	25.0	1	7.7	0	0.0	2	6.5
120,001-130,000	0	0.0	0	0.0	3	23.1	0	0.0	3	9.7
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	1	25.0	1	7.7	0	0.0	2	6.5
150,001-160,000	0	0.0	1	25.0	0	0.0	0	0.0	1	3.2
Unknown	2	15.4	0	0.0	0	0.0	0	0.0	2	6.5
Total	13	100.0	4	100.0	13	100.0	1	100.0	31	100.0

Table 7-8
Fatal Truck Involvements by Cargo Body Style and LCV Type
TIFA 2003

Cargo body style	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Van	3	23.1	0	0.0	4	30.8	1	100.0	8	25.8
Refrigerated van	2	15.4	0	0.0	0	0.0	0	0.0	2	6.5
Flatbed	2	15.4	1	25.0	3	23.1	0	0.0	6	19.4
Flatbed with sides	0	0.0	0	0.0	1	7.7	0	0.0	1	3.2
Pole/logging	0	0.0	0	0.0	1	7.7	0	0.0	1	3.2
Tank:liquid/gas	1	7.7	0	0.0	0	0.0	0	0.0	1	3.2
Dump	1	7.7	3	75.0	0	0.0	0	0.0	4	12.9
Hopper bottom	4	30.8	0	0.0	4	30.8	0	0.0	8	25.8
Total	13	100.0	4	100.0	13	100.0	1	100.0	31	100.0

Table 7-9
Fatal Truck Involvements by Type of Cargo and LCV Type
TIFA 2003

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	1	7.7	0	0.0	3	23.1	1	100.0	5	16.1
Metals (coils, sheets)	0	0.0	0	0.0	1	7.7	0	0.0	1	3.2
Solids in bulk	2	15.4	3	75.0	4	30.8	0	0.0	9	29.0
Logs/poles/lumber	0	0.0	1	25.0	4	30.8	0	0.0	5	16.1
Refrigerated foods	1	7.7	0	0.0	0	0.0	0	0.0	1	3.2
Farm products	0	0.0	0	0.0	1	7.7	0	0.0	1	3.2
Unknown	1	7.7	0	0.0	0	0.0	0	0.0	1	3.2
Total	13	100.0	4	100.0	13	100.0	1	100.0	31	100.0

Table 7-10
Fatal Truck Involvements by Road Class and LCV Type
TIFA 2003

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	0	0.0	0	0.0	1	3.2
Interstate/rural	4	30.8	0	0.0	3	23.1	1	100.0	8	25.8
Major arterial/urban	3	23.1	0	0.0	0	0.0	0	0.0	3	9.7
Major arterial/rural	3	23.1	2	50.0	9	69.2	0	0.0	14	45.2
Other/urban	2	15.4	1	25.0	1	7.7	0	0.0	4	12.9
Other/rural	0	0.0	1	25.0	0	0.0	0	0.0	1	3.2
Total	13	100.0	4	100.0	13	100.0	1	100.0	31	100.0

Table 7-11
Fatal Truck Involvements by Carrier Type and LCV Type
TIFA 2003

Carrier type	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Interstate private	2	15.4	1	25.0	1	7.7	0	0.0	4	12.9
Interstate for-hire	5	38.5	2	50.0	8	61.5	1	100.0	16	51.6
Intrastate private	3	23.1	1	25.0	1	7.7	0	0.0	5	16.1
Intrastate for-hire	2	15.4	0	0.0	2	15.4	0	0.0	4	12.9
Unknown	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 7-12
Fatal Truck Involvements by First Harmful Event and LCV Type
TIFA 2003

First harmful event	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<i>Collision</i>										
Motor vehicle	12	92.3	3	75.0	11	84.6	0	0.0	26	83.9
Non-fixed	1	7.7	1	25.0	1	7.7	1	100.0	4	12.9
Fixed object	0	0.0	0	0.0	1	7.7	0	0.0	1	3.2
Total	13	100.0	4	100.0	13	100.0	1	100.0	31	100.0

Glossary and abbreviations

Glossary

A- dolly

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

Bobtail

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

B- train

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

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

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