

TRUCKS INVOLVED IN FATAL ACCIDENTS FACTBOOK 2004



Center for National Truck and Bus Statistics
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September 2007

Center for National Truck and Bus Statistics

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16. Abstract <p>This document presents aggregate statistics on trucks involved in traffic accidents in 2004. The statistics are derived from the Trucks Involved in Fatal Accidents (TIFA) file, compiled by the University of Michigan Transportation Research Institute. The TIFA database provides coverage of all medium and heavy trucks recorded in the Fatality Analysis Reporting System (FARS) file. TIFA combines vehicle, accident, and occupant records from FARS with information about the physical configuration and operating authority of the truck from the TIFA survey.</p>					
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SI* (MODERN METRIC) CONVERSION FACTORS

APPROXIMATE CONVERSIONS TO SI UNITS					APPROXIMATE CONVERSIONS FROM SI UNITS				
Symbol	When You Know	Multiply By	To Find	Symbol	Symbol	When You Know	Multiply By	To Find	Symbol
LENGTH					LENGTH				
	inches	25.4	millimeters	mm	mm	millimeters	0.039	inches	in
in					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)

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Introduction

This report, *Trucks Involved in Fatal Accidents Factbook, 2004*, 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 2004 TIFA file is a census file, meaning there is one record for each of the 5,313 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, 2004*.

Report overview

This report consists of seven sections. The "Trends" section provides data on fatalities and fatal accident involvements from 2000 through 2004. 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, 2000-2004

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

- An average of about 5,000 trucks are involved in a fatal traffic accident each year.
- Tractors pulling one semitrailer are the most common truck configuration, accounting for about 60% of all trucks involved in a fatal accident.
- Texas, California, and Florida had the greatest number of truck involvements over the period 2000 to 2004.
- The number of persons killed in accidents involving a truck increased to 5,663 in 2004, after decreasing to 5,314 in 2002.
- The number of truck drivers killed in traffic accidents increased from 664 in 2002 to 700 in 2004.
- An average of 361 pedestrians and 72 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 2000-2004

Accident year	Strt truck	Strt/1 trailer	Bobtail	Trac/1 semi	Trac/2 trlrs	Other combs	Unk.	Total
	No.	No.	No.	No.	No.	No.	No.	No.
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
2004	1622	221	111	3160	156	33	10	5313
Total	7418	1055	526	15220	795	186	583	25783

**Table 1-2
Fatal Truck Involvements by Year and All Truck Configurations
TIFA 2000-2004**

Configuration	2000	2001	2002	2003	2004	Total
	No.	No.	No.	No.	No.	No.
Straight only	1519	1494	1284	1499	1622	7418
Straight + full trailer	47	56	44	37	41	225
Straight + other	127	109	97	122	138	593
Straight + other, gooseneck hitch	48	46	42	59	42	237
Wrecker + tow	11	15	11	19	11	67
Straight, unknown if trailer	2	9	2	4	11	28
Straight + other trailer + other trailer	0	1	0	0	0	1
Straight + 2 full trailers	0	1	1	0	0	2
Straight + other (gooseneck) + other	1	1	0	0	1	3
Bobtail tractor	110	101	87	83	98	479
Tractor carrying cargo	13	9	8	4	13	47
Tractor and semitrailer	3164	3014	2877	3005	3160	15220
Tractor + other	15	13	12	8	5	53
Tractor + semi + A dolly	2	0	0	1	0	3
Tractor + full trailer	1	0	0	1	0	2
Double with A dolly	86	82	75	99	81	423
Double, B train	7	3	6	3	2	21
Double with C dolly	0	0	0	0	4	4
Double with unknown dolly type	0	6	1	2	7	16
Tractor + semi + full	66	70	72	51	58	317
Tractor + semi + other	1	3	0	0	1	5
Tractor + semi + unknown	2	2	0	2	3	9
Triple with A dollies	2	0	1	1	0	4
Tractor + 3 trailers	0	1	0	0	0	1
Tractor + jeep + semi + jeep	2	0	1	1	1	5
Tractor + semi + jeep	0	0	1	1	1	3
Tractor + jeep + semi	0	0	3	0	2	5
Tractor + 1 saddlemount tractor	1	0	2	0	0	3
Tractor + 2 saddlemount tractors	0	0	2	1	1	4
Straight + 2 saddlemount straights	0	0	0	1	0	1
Wrecker towing other trailer	1	0	0	0	0	1
Unknown	47	105	321	100	10	583
Total	5275	5141	4950	5104	5313	25783

Table 1-3: Fatal Truck Involvements by Year and State, TIFA 2000-2004

State	2000	2001	2002	2003	2004	Total
	No.	No.	No.	No.	No.	No.
Alabama	154	153	128	155	150	740
Alaska	4	9	5	5	15	38
Arizona	107	90	96	112	111	516
Arkansas	119	109	85	106	99	518
California	396	381	374	360	405	1916
Colorado	75	94	60	63	78	370
Connecticut	39	27	17	25	30	138
Delaware	21	12	19	17	19	88
Dist of Columbia	4	1	1	0	6	12
Florida	321	357	390	380	399	1847
Georgia	219	243	214	228	256	1160
Hawaii	2	9	4	5	7	27
Idaho	27	32	32	38	32	161
Illinois	171	188	172	192	163	886
Indiana	170	144	131	174	175	794
Iowa	87	80	76	66	64	373
Kansas	85	83	80	79	86	413
Kentucky	99	102	121	130	132	584
Louisiana	118	140	107	121	108	594
Maine	27	28	26	16	19	116
Maryland	67	79	66	69	82	363
Massachusetts	49	31	25	37	40	182
Michigan	152	130	136	121	126	665
Minnesota	78	62	86	68	69	363
Mississippi	122	93	78	81	90	464
Missouri	179	138	167	161	159	804
Montana	27	30	30	26	18	131
Nebraska	55	63	61	55	43	277
Nevada	37	44	39	42	33	195
New Hampshire	11	14	18	14	13	70
New Jersey	94	76	55	68	99	392
New Mexico	44	56	60	44	66	270
New York	162	144	143	156	141	746
North Carolina	178	196	177	175	194	920
North Dakota	11	12	18	15	17	73
Ohio	199	168	194	158	191	910
Oklahoma	116	92	126	126	120	580
Oregon	65	54	47	56	55	277
Pennsylvania	188	176	192	221	220	997
Rhode Island	2	6	5	7	4	24
South Carolina	96	120	101	100	108	525
South Dakota	22	24	16	17	20	99
Tennessee	172	137	136	123	151	719
Texas	499	509	445	507	482	2442
Utah	44	34	40	23	29	170
Vermont	8	6	11	13	14	52
Virginia	107	128	90	132	110	567
Washington	69	58	57	42	55	281
West Virginia	51	52	59	55	63	280
Wisconsin	106	101	105	90	97	499
Wyoming	20	26	29	30	50	155
Total	5275	5141	4950	5104	5313	25783

Table 1-4: Fatal Truck Involvements by Year and State – STRAIGHT TRUCKS ONLY, TIFA 2000-2004

State	2000	2001	2002	2003	2004	Total
	No.	No.	No.	No.	No.	No.
Alabama	41	39	31	36	51	198
Alaska	4	5	2	3	4	18
Arizona	35	31	30	36	44	176
Arkansas	35	25	15	25	18	118
California	154	139	122	147	152	714
Colorado	37	37	27	13	35	149
Connecticut	18	11	8	11	18	66
Delaware	9	6	7	6	9	37
Dist of Columbia	3	0	1	0	4	8
Florida	133	132	116	163	160	704
Georgia	63	82	68	76	92	381
Hawaii	1	7	2	3	5	18
Idaho	6	13	13	13	12	57
Illinois	50	27	41	47	50	215
Indiana	46	46	41	41	47	221
Iowa	24	20	17	21	18	100
Kansas	27	28	20	24	21	120
Kentucky	34	36	48	48	43	209
Louisiana	29	46	31	33	26	165
Maine	17	11	13	8	8	57
Maryland	27	38	30	34	41	170
Massachusetts	26	19	13	21	23	102
Michigan	53	52	59	48	49	261
Minnesota	26	18	32	25	26	127
Mississippi	21	20	7	6	15	69
Missouri	50	40	63	52	48	253
Montana	8	7	15	9	8	47
Nebraska	15	20	8	12	11	66
Nevada	14	11	6	12	10	53
New Hampshire	4	9	7	7	5	32
New Jersey	50	35	15	13	57	170
New Mexico	7	13	13	4	11	48
New York	89	73	49	80	78	369
North Carolina	52	68	61	63	73	317
North Dakota	0	3	4	5	8	20
Ohio	70	62	44	55	67	298
Oklahoma	32	26	21	46	42	167
Oregon	21	22	14	17	29	103
Pennsylvania	49	35	48	87	73	292
Rhode Island	1	5	2	2	2	12
South Carolina	24	39	31	33	38	165
South Dakota	8	5	3	6	8	30
Tennessee	41	43	43	37	42	206
Texas	143	177	87	164	146	717
Utah	12	4	4	8	10	38
Vermont	3	3	4	5	5	20
Virginia	43	49	33	48	43	216
Washington	27	16	31	21	20	115
West Virginia	17	19	21	23	17	97
Wisconsin	52	49	48	37	38	224
Wyoming	5	11	11	7	6	40
Total	1756	1732	1480	1741	1866	8575

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

Table 1-5: Fatal Truck Involvements by Year and State – TRACTOR-SEMITRAILERS ONLY, TIFA 2000-2004

State	2000	2001	2002	2003	2004	Total
	No.	No.	No.	No.	No.	No.
Alabama	109	101	88	110	94	502
Alaska	0	1	2	1	8	12
Arizona	68	55	61	67	59	310
Arkansas	77	76	66	75	76	370
California	184	184	182	156	194	900
Colorado	36	53	31	48	41	209
Connecticut	19	15	9	6	10	59
Delaware	11	6	11	11	9	48
Dist of Columbia	0	1	0	0	2	3
Florida	178	217	224	201	230	1050
Georgia	149	151	133	147	155	735
Hawaii	1	2	2	2	2	9
Idaho	16	14	16	21	17	84
Illinois	110	111	81	131	105	538
Indiana	114	94	82	129	113	532
Iowa	60	52	43	42	44	241
Kansas	55	52	57	49	61	274
Kentucky	64	64	69	79	84	360
Louisiana	81	92	69	86	74	402
Maine	10	17	13	8	10	58
Maryland	39	41	34	33	37	184
Massachusetts	21	11	10	14	16	72
Michigan	84	67	67	65	68	351
Minnesota	51	43	47	37	43	221
Mississippi	89	65	40	36	73	303
Missouri	116	91	95	104	104	510
Montana	17	17	11	11	8	64
Nebraska	37	40	46	43	31	197
Nevada	16	29	17	26	13	101
New Hampshire	7	4	11	7	6	35
New Jersey	42	35	12	22	42	153
New Mexico	34	41	44	28	48	195
New York	71	64	63	73	58	329
North Carolina	122	117	110	102	110	561
North Dakota	9	8	12	10	8	47
Ohio	120	94	128	98	117	557
Oklahoma	80	62	86	77	72	377
Oregon	32	28	26	29	22	137
Pennsylvania	96	94	105	123	141	559
Rhode Island	1	1	3	5	2	12
South Carolina	64	74	66	62	66	332
South Dakota	12	17	11	10	10	60
Tennessee	116	88	87	79	100	470
Texas	329	309	291	329	319	1577
Utah	24	22	30	11	18	105
Vermont	5	3	7	8	9	32
Virginia	59	74	56	80	63	332
Washington	31	24	19	16	28	118
West Virginia	33	29	33	30	46	171
Wisconsin	52	50	55	48	57	262
Wyoming	13	14	16	20	37	100
Total	3164	3014	2877	3005	3160	15220

Table 1-6: Fatal Truck Involvements by Year and State – DOUBLES ONLY, TIFA 2000-2004

State	2000	2001	2002	2003	2004	Total
	No.	No.	No.	No.	No.	No.
Alabama	1	3	3	5	2	14
Alaska	0	2	0	1	2	5
Arizona	3	4	3	8	4	22
Arkansas	4	4	3	3	2	16
California	45	42	59	43	45	234
Colorado	0	4	1	1	0	6
Connecticut	1	0	0	1	0	2
Delaware	0	0	0	0	0	0
Dist of Columbia	0	0	0	0	0	0
Florida	4	4	2	4	1	15
Georgia	2	3	3	3	2	13
Hawaii	0	0	0	0	0	0
Idaho	5	4	2	2	2	15
Illinois	4	1	1	2	4	12
Indiana	5	2	4	3	9	23
Iowa	0	3	1	0	0	4
Kansas	3	2	0	3	3	11
Kentucky	0	1	1	1	2	5
Louisiana	1	1	4	1	2	9
Maine	0	0	0	0	0	0
Maryland	1	0	0	0	1	2
Massachusetts	0	1	0	0	1	2
Michigan	11	8	7	7	8	41
Minnesota	0	0	0	2	0	2
Mississippi	2	2	0	2	0	6
Missouri	7	5	6	3	2	23
Montana	0	4	2	4	1	11
Nebraska	2	2	3	0	0	7
Nevada	2	3	2	3	9	19
New Hampshire	0	0	0	0	0	0
New Jersey	0	2	1	1	0	4
New Mexico	3	2	2	2	5	14
New York	0	0	3	1	2	6
North Carolina	3	4	1	8	6	22
North Dakota	2	1	0	0	1	4
Ohio	4	6	4	4	5	23
Oklahoma	1	2	1	1	1	6
Oregon	8	3	5	5	3	24
Pennsylvania	3	2	3	6	3	17
Rhode Island	0	0	0	0	0	0
South Carolina	3	3	0	0	1	7
South Dakota	1	1	1	1	2	6
Tennessee	4	2	4	4	4	18
Texas	7	10	7	9	7	40
Utah	5	4	4	4	1	18
Vermont	0	0	0	0	0	0
Virginia	2	2	1	1	1	7
Washington	10	13	5	2	5	35
West Virginia	1	2	2	1	0	6
Wisconsin	0	1	1	2	1	5
Wyoming	2	1	2	3	6	14
Total	162	166	154	157	156	795

Annual fatalities

Table 1-7
Fatalities in Truck Involvements by Year and Person Type
TIFA 2000-2004

Vehicle/Person type	2000		2001		2002		2003		2004	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<i>Truck</i>										
Driver	713	12.8	676	12.4	664	12.5	700	12.9	700	12.4
Passenger	111	2.0	145	2.7	124	2.3	123	2.3	156	2.8
Unk occ type	4	0.1	0	0.0	1	0.0	2	0.0	2	0.0
Truck total	828	14.9	821	15.1	789	14.8	825	15.3	858	15.2
<i>Other vehicle</i>										
Drivers	3131	56.2	3081	56.6	3026	56.9	3029	56.0	3138	55.4
Passengers	1157	20.8	1053	19.3	1087	20.5	1110	20.5	1198	21.2
Unk occ type	9	0.2	8	0.1	4	0.1	10	0.2	3	0.1
Other vehicle total	4297	77.2	4142	76.1	4117	77.5	4149	76.7	4339	76.6
<i>Non-motorists</i>										
In parked vehicle	11	0.2	14	0.3	12	0.2	9	0.2	7	0.1
Pedestrian	358	6.4	392	7.2	325	6.1	364	6.7	366	6.5
Bicyclist	70	1.3	73	1.3	69	1.3	59	1.1	87	1.5
Other/unknown	3	0.1	0	0.0	2	0.0	3	0.1	6	0.1
Non-motorist total	442	7.9	479	8.8	408	7.7	435	8.0	466	8.2
Total	5567	100.0	5442	100.0	5314	100.0	5409	100.0	5663	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.

- August had the greatest number of fatal involvements with 520, while February had the fewest with 364.
- Two-thirds of fatal accident involvements occur in rural areas.
- Almost two-thirds of fatal accident involvements occur in daylight.
- 79.5% of fatal accident involvements occur on dry roads.
- 82.7% of fatal accident involvements occur in “normal” (i.e., no precipitation) weather conditions.
- 29.6% of fatal involvements occur on state highways, 24.0% on U.S. highways, and 26.7% on Interstate highways.
- In 11.2% of fatal involvements, the other vehicle crossed the center line of the road and struck the truck head on.

Geographic distributions

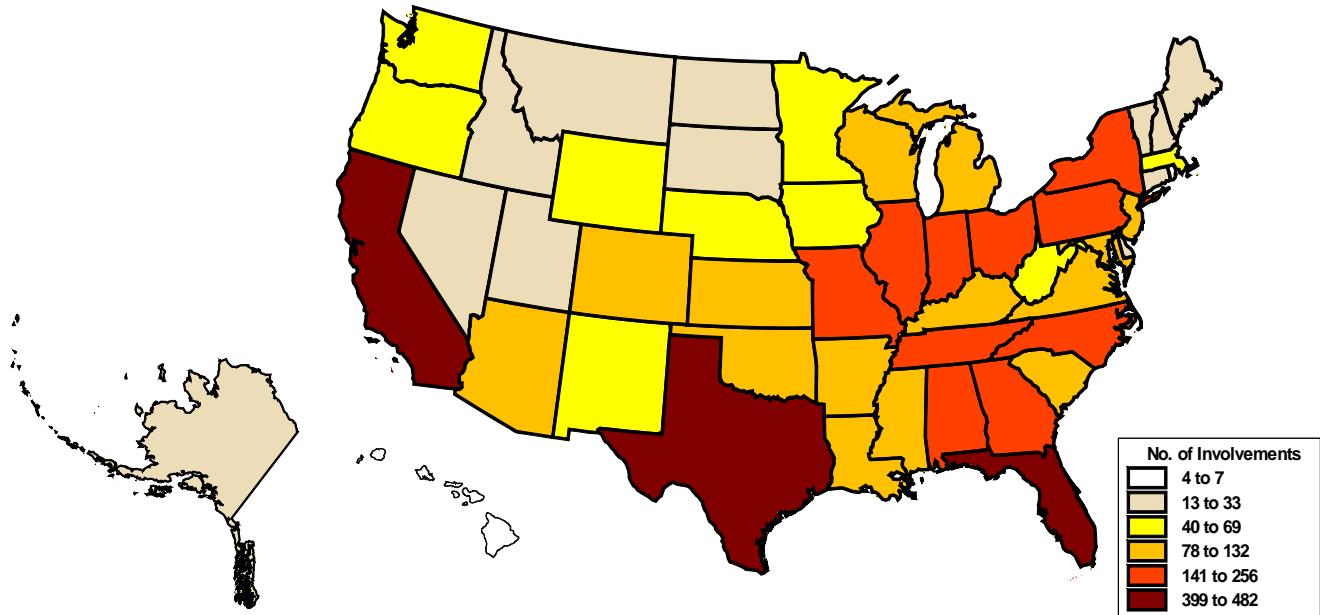


Figure 2-1: Fatal Truck Involvements by State, TIFA 2004

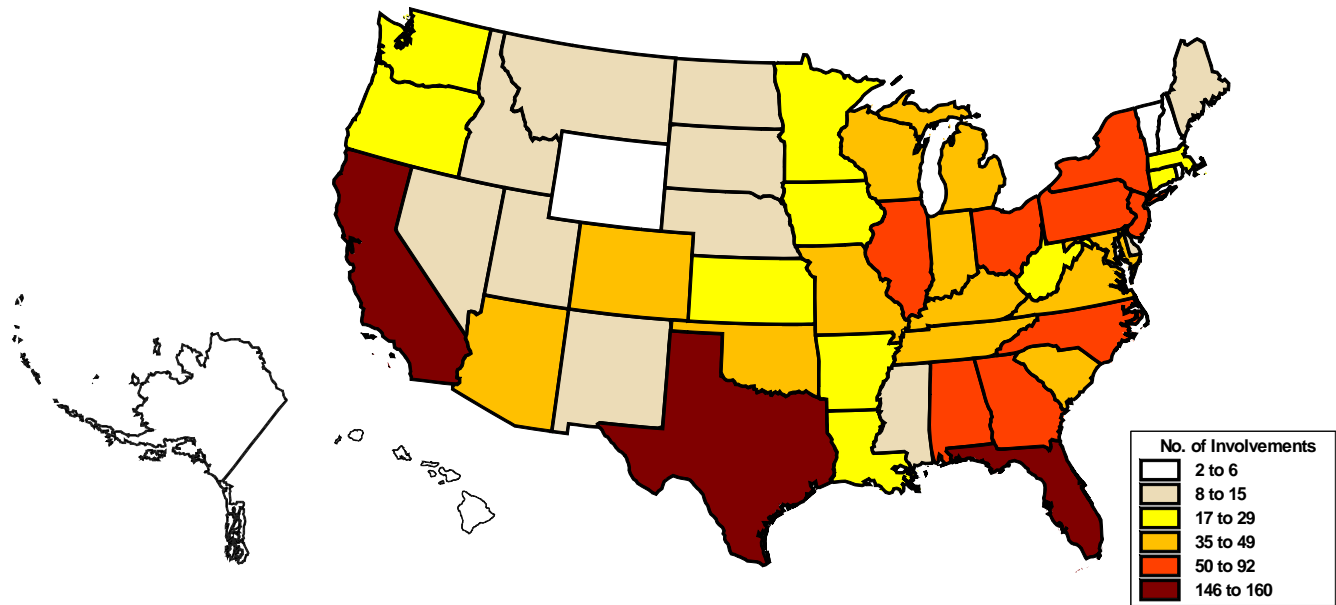


Figure 2-2: Fatal Truck Involvements by State – STRAIGHT TRUCKS ONLY, TIFA 2004

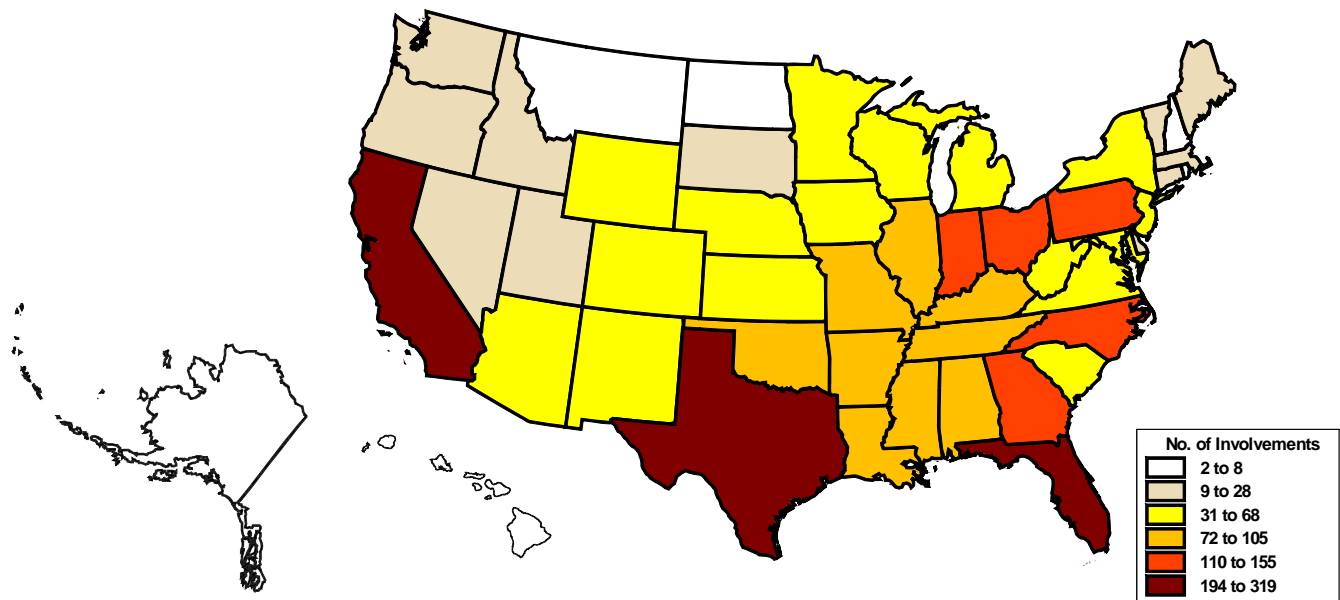


Figure 2-3: Fatal Truck Involvements by State – TRACTOR-SEMITRAILERS ONLY, TIFA 2004

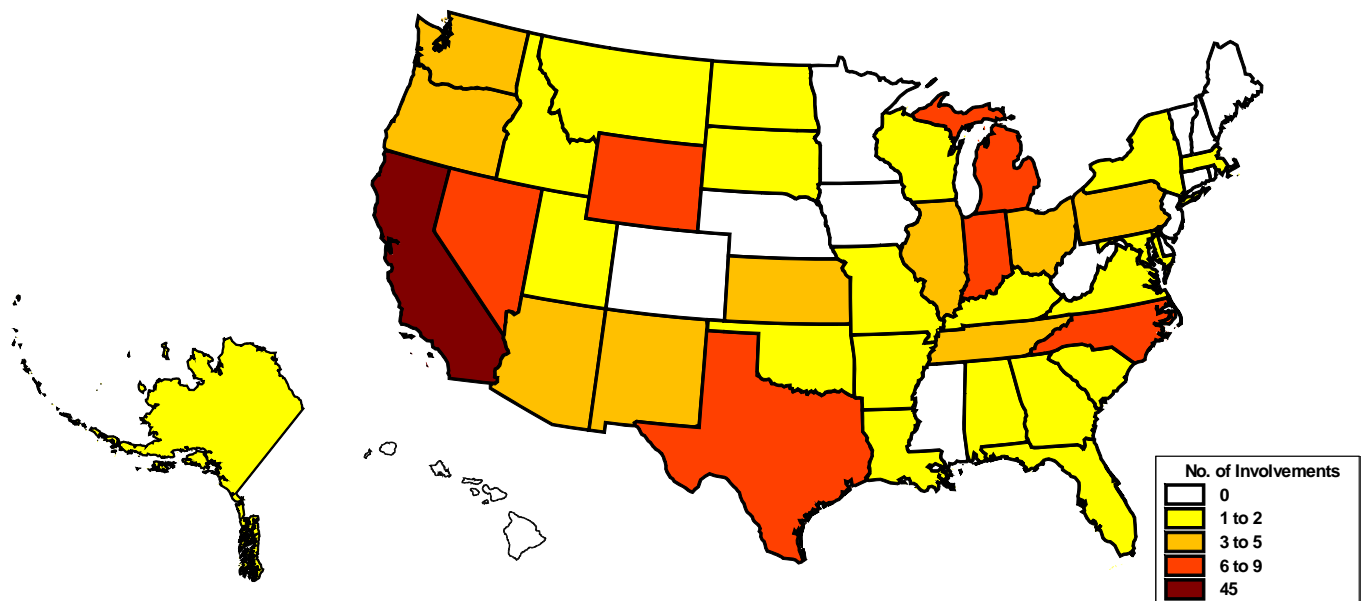


Figure 2-4: Fatal Truck Involvements by State – DOUBLES ONLY, TIFA 2004

Table 2-1: Fatal Truck Involvements by State and Truck Configuration, TIFA 2004

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	44	2.7	6	2.7	3	2.7	94	3.0	2	1.3	1	3.0	0	0.0	150	2.8
Alaska	4	0.2	0	0.0	1	0.9	8	0.3	2	1.3	0	0.0	0	0.0	15	0.3
Arizona	34	2.1	10	4.5	2	1.8	59	1.9	4	2.6	1	3.0	1	10.0	111	2.1
Arkansas	17	1.0	1	0.5	3	2.7	76	2.4	2	1.3	0	0.0	0	0.0	99	1.9
California	131	8.1	21	9.5	13	11.7	194	6.1	45	28.8	0	0.0	1	10.0	405	7.6
Colorado	27	1.7	8	3.6	1	0.9	41	1.3	0	0.0	0	0.0	1	10.0	78	1.5
Connecticut	16	1.0	2	0.9	2	1.8	10	0.3	0	0.0	0	0.0	0	0.0	30	0.6
Delaware	8	0.5	1	0.5	1	0.9	9	0.3	0	0.0	0	0.0	0	0.0	19	0.4
Dist of Columbia	4	0.2	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	6	0.1
Florida	143	8.8	13	5.9	7	6.3	230	7.3	1	0.6	5	15.2	0	0.0	399	7.5
Georgia	84	5.2	7	3.2	7	6.3	155	4.9	2	1.3	1	3.0	0	0.0	256	4.8
Hawaii	4	0.2	1	0.5	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	7	0.1
Idaho	10	0.6	1	0.5	1	0.9	17	0.5	2	1.3	1	3.0	0	0.0	32	0.6
Illinois	45	2.8	4	1.8	4	3.6	105	3.3	4	2.6	1	3.0	0	0.0	163	3.1
Indiana	40	2.5	7	3.2	5	4.5	113	3.6	9	5.8	0	0.0	1	10.0	175	3.3
Iowa	15	0.9	3	1.4	2	1.8	44	1.4	0	0.0	0	0.0	0	0.0	64	1.2
Kansas	17	1.0	3	1.4	1	0.9	61	1.9	3	1.9	1	3.0	0	0.0	86	1.6
Kentucky	38	2.3	4	1.8	1	0.9	84	2.7	2	1.3	3	9.1	0	0.0	132	2.5
Louisiana	23	1.4	3	1.4	5	4.5	74	2.3	2	1.3	1	3.0	0	0.0	108	2.0
Maine	7	0.4	1	0.5	1	0.9	10	0.3	0	0.0	0	0.0	0	0.0	19	0.4
Maryland	36	2.2	5	2.3	3	2.7	37	1.2	1	0.6	0	0.0	0	0.0	82	1.5
Massachusetts	21	1.3	2	0.9	0	0.0	16	0.5	1	0.6	0	0.0	0	0.0	40	0.8
Michigan	44	2.7	5	2.3	0	0.0	68	2.2	8	5.1	1	3.0	0	0.0	126	2.4
Minnesota	19	1.2	6	2.7	0	0.0	43	1.4	0	0.0	1	3.0	0	0.0	69	1.3
Mississippi	11	0.7	4	1.8	2	1.8	73	2.3	0	0.0	0	0.0	0	0.0	90	1.7
Missouri	43	2.7	5	2.3	4	3.6	104	3.3	2	1.3	1	3.0	0	0.0	159	3.0
Montana	7	0.4	1	0.5	1	0.9	8	0.3	1	0.6	0	0.0	0	0.0	18	0.3
Nebraska	8	0.5	3	1.4	1	0.9	31	1.0	0	0.0	0	0.0	0	0.0	43	0.8
Nevada	10	0.6	0	0.0	1	0.9	13	0.4	9	5.8	0	0.0	0	0.0	33	0.6
New Hampshire	4	0.2	1	0.5	2	1.8	6	0.2	0	0.0	0	0.0	0	0.0	13	0.2
New Jersey	55	3.4	2	0.9	0	0.0	42	1.3	0	0.0	0	0.0	0	0.0	99	1.9
New Mexico	9	0.6	2	0.9	0	0.0	48	1.5	5	3.2	1	3.0	1	10.0	66	1.2
New York	70	4.3	6	2.7	1	0.9	58	1.8	2	1.3	2	6.1	2	20.0	141	2.7
North Carolina	68	4.2	5	2.3	4	3.6	110	3.5	6	3.8	0	0.0	1	10.0	194	3.7
North Dakota	8	0.5	0	0.0	0	0.0	8	0.3	1	0.6	0	0.0	0	0.0	17	0.3
Ohio	60	3.7	6	2.7	2	1.8	117	3.7	5	3.2	1	3.0	0	0.0	191	3.6
Oklahoma	33	2.0	7	3.2	5	4.5	72	2.3	1	0.6	2	6.1	0	0.0	120	2.3
Oregon	21	1.3	7	3.2	0	0.0	22	0.7	3	1.9	2	6.1	0	0.0	55	1.0
Pennsylvania	68	4.2	4	1.8	3	2.7	141	4.5	3	1.9	1	3.0	0	0.0	220	4.1
Rhode Island	2	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	4	0.1
South Carolina	34	2.1	3	1.4	3	2.7	66	2.1	1	0.6	1	3.0	0	0.0	108	2.0
South Dakota	6	0.4	2	0.9	0	0.0	10	0.3	2	1.3	0	0.0	0	0.0	20	0.4
Tennessee	37	2.3	5	2.3	5	4.5	100	3.2	4	2.6	0	0.0	0	0.0	151	2.8
Texas	120	7.4	24	10.9	10	9.0	319	10.1	7	4.5	2	6.1	0	0.0	482	9.1
Utah	7	0.4	3	1.4	0	0.0	18	0.6	1	0.6	0	0.0	0	0.0	29	0.5
Vermont	5	0.3	0	0.0	0	0.0	9	0.3	0	0.0	0	0.0	0	0.0	14	0.3
Virginia	38	2.3	4	1.8	1	0.9	63	2.0	1	0.6	1	3.0	2	20.0	110	2.1
Washington	14	0.9	6	2.7	1	0.9	28	0.9	5	3.2	1	3.0	0	0.0	55	1.0
West Virginia	14	0.9	2	0.9	0	0.0	46	1.5	0	0.0	1	3.0	0	0.0	63	1.2
Wisconsin	35	2.2	3	1.4	1	0.9	57	1.8	1	0.6	0	0.0	0	0.0	97	1.8
Wyoming	4	0.2	2	0.9	1	0.9	37	1.2	6	3.8	0	0.0	0	0.0	50	0.9
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Temporal distributions

Table 2-2
Fatal Truck Involvements by Month and Truck Configuration
TIFA 2004

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	124	7.6	16	7.2	9	8.1	302	9.6	11	7.1	1	3.0	0	0.0	463	8.7
February	111	6.8	12	5.4	7	6.3	218	6.9	11	7.1	3	9.1	2	20.0	364	6.9
March	114	7.0	15	6.8	8	7.2	250	7.9	6	3.8	2	6.1	1	10.0	396	7.5
April	126	7.8	24	10.9	7	6.3	254	8.0	15	9.6	4	12.1	2	20.0	432	8.1
May	109	6.7	20	9.0	9	8.1	248	7.8	11	7.1	4	12.1	0	0.0	401	7.5
June	147	9.1	15	6.8	9	8.1	279	8.8	14	9.0	2	6.1	2	20.0	468	8.8
July	155	9.6	20	9.0	12	10.8	262	8.3	13	8.3	2	6.1	1	10.0	465	8.8
August	162	10.0	18	8.1	10	9.0	302	9.6	22	14.1	5	15.2	1	10.0	520	9.8
September	147	9.1	22	10.0	7	6.3	252	8.0	13	8.3	5	15.2	1	10.0	447	8.4
October	154	9.5	19	8.6	7	6.3	283	9.0	14	9.0	2	6.1	0	0.0	479	9.0
November	128	7.9	18	8.1	10	9.0	232	7.3	13	8.3	2	6.1	0	0.0	403	7.6
December	145	8.9	22	10.0	16	14.4	278	8.8	13	8.3	1	3.0	0	0.0	475	8.9
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 2-3
Fatal Truck Involvements by Day of Week and Truck Configuration
TIFA 2004

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	75	4.6	26	11.8	6	5.4	226	7.2	13	8.3	3	9.1	0	0.0	349	6.6
Monday	254	15.7	31	14.0	16	14.4	507	16.0	18	11.5	3	9.1	0	0.0	829	15.6
Tuesday	288	17.8	29	13.1	20	18.0	518	16.4	27	17.3	8	24.2	2	20.0	892	16.8
Wednesday	283	17.4	37	16.7	13	11.7	564	17.8	20	12.8	8	24.2	2	20.0	927	17.4
Thursday	281	17.3	34	15.4	17	15.3	533	16.9	31	19.9	2	6.1	2	20.0	900	16.9
Friday	300	18.5	36	16.3	24	21.6	536	17.0	23	14.7	4	12.1	2	20.0	925	17.4
Saturday	141	8.7	28	12.7	15	13.5	276	8.7	24	15.4	5	15.2	2	20.0	491	9.2
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 2-4
Fatal Truck Involvements by Day Type and Truck Configuration
TIFA 2004

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	1406	86.7	167	75.6	90	81.1	2658	84.1	119	76.3	25	75.8	8	80.0	4473	84.2
Weekend	216	13.3	54	24.4	21	18.9	502	15.9	37	23.7	8	24.2	2	20.0	840	15.8
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	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 2004**

Time of accident	Strt truck		Strt/1 trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Midnight	16	1.0	4	1.8	3	2.7	82	2.6	9	5.8	0	0.0	0	0.0	114	2.1
1:00 AM	22	1.4	0	0.0	1	0.9	104	3.3	3	1.9	0	0.0	0	0.0	130	2.4
2:00 AM	21	1.3	5	2.3	0	0.0	82	2.6	9	5.8	0	0.0	0	0.0	117	2.2
3:00 AM	23	1.4	3	1.4	3	2.7	77	2.4	7	4.5	1	3.0	0	0.0	114	2.1
4:00 AM	32	2.0	1	0.5	4	3.6	84	2.7	5	3.2	0	0.0	0	0.0	126	2.4
5:00 AM	49	3.0	4	1.8	7	6.3	141	4.5	14	9.0	0	0.0	0	0.0	215	4.0
6:00 AM	85	5.2	5	2.3	3	2.7	146	4.6	9	5.8	0	0.0	0	0.0	248	4.7
7:00 AM	89	5.5	16	7.2	8	7.2	148	4.7	7	4.5	0	0.0	0	0.0	268	5.0
8:00 AM	88	5.4	13	5.9	7	6.3	140	4.4	5	3.2	3	9.1	1	10.0	257	4.8
9:00 AM	98	6.0	14	6.3	3	2.7	155	4.9	9	5.8	4	12.1	2	20.0	285	5.4
10:00 AM	133	8.2	17	7.7	4	3.6	174	5.5	6	3.8	3	9.1	0	0.0	337	6.3
11:00 AM	130	8.0	9	4.1	5	4.5	190	6.0	7	4.5	2	6.1	1	10.0	344	6.5
Noon	99	6.1	14	6.3	5	4.5	171	5.4	9	5.8	0	0.0	2	20.0	300	5.6
1:00 PM	123	7.6	14	6.3	8	7.2	180	5.7	4	2.6	0	0.0	0	0.0	329	6.2
2:00 PM	129	8.0	20	9.0	8	7.2	212	6.7	11	7.1	5	15.2	1	10.0	386	7.3
3:00 PM	101	6.2	17	7.7	4	3.6	156	4.9	7	4.5	3	9.1	1	10.0	289	5.4
4:00 PM	119	7.3	15	6.8	3	2.7	148	4.7	5	3.2	3	9.1	0	0.0	293	5.5
5:00 PM	72	4.4	16	7.2	2	1.8	144	4.6	4	2.6	1	3.0	0	0.0	239	4.5
6:00 PM	61	3.8	12	5.4	7	6.3	119	3.8	2	1.3	3	9.1	0	0.0	204	3.8
7:00 PM	34	2.1	9	4.1	9	8.1	102	3.2	6	3.8	1	3.0	1	10.0	162	3.0
8:00 PM	35	2.2	6	2.7	8	7.2	104	3.3	4	2.6	0	0.0	0	0.0	157	3.0
9:00 PM	26	1.6	4	1.8	4	3.6	115	3.6	4	2.6	3	9.1	1	10.0	157	3.0
10:00 PM	21	1.3	1	0.5	3	2.7	98	3.1	5	3.2	1	3.0	0	0.0	129	2.4
11:00 PM	16	1.0	2	0.9	2	1.8	87	2.8	5	3.2	0	0.0	0	0.0	112	2.1
Unknown	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 2-6
Fatal Truck Involvements by Time of Accident and Day Type
TIFA 2004

Time of accident	Work week		Weekend		Total	
	No.	Pct.	No.	Pct.	No.	Pct.
Midnight	82	1.8	32	3.8	114	2.1
1:00 AM	87	1.9	43	5.1	130	2.4
2:00 AM	80	1.8	37	4.4	117	2.2
3:00 AM	76	1.7	38	4.5	114	2.1
4:00 AM	89	2.0	37	4.4	126	2.4
5:00 AM	180	4.0	35	4.2	215	4.0
6:00 AM	222	5.0	26	3.1	248	4.7
7:00 AM	230	5.1	38	4.5	268	5.0
8:00 AM	228	5.1	29	3.5	257	4.8
9:00 AM	245	5.5	40	4.8	285	5.4
10:00 AM	301	6.7	36	4.3	337	6.3
11:00 AM	305	6.8	39	4.6	344	6.5
Noon	262	5.9	38	4.5	300	5.6
1:00 PM	300	6.7	29	3.5	329	6.2
2:00 PM	343	7.7	43	5.1	386	7.3
3:00 PM	242	5.4	47	5.6	289	5.4
4:00 PM	260	5.8	33	3.9	293	5.5
5:00 PM	197	4.4	42	5.0	239	4.5
6:00 PM	159	3.6	45	5.4	204	3.8
7:00 PM	127	2.8	35	4.2	162	3.0
8:00 PM	127	2.8	30	3.6	157	3.0
9:00 PM	126	2.8	31	3.7	157	3.0
10:00 PM	110	2.5	19	2.3	129	2.4
11:00 PM	94	2.1	18	2.1	112	2.1
Unknown	1	0.0	0	0.0	1	0.0
Total	4473	100.0	840	100.0	5313	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 2004

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	666	41.1	67	30.3	45	40.5	905	28.6	45	28.8	9	27.3	3	30.0	1740	32.7
Rural	945	58.3	153	69.2	65	58.6	2238	70.8	110	70.5	24	72.7	7	70.0	3542	66.7
Unknown	11	0.7	1	0.5	1	0.9	17	0.5	1	0.6	0	0.0	0	0.0	31	0.6
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 2-8
Fatal Truck Involvements by Light Condition and Truck Configuration
TIFA 2004

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	1217	75.0	169	76.5	61	55.0	1925	60.9	79	50.6	26	78.8	8	80.0	3485	65.6
Dark	214	13.2	28	12.7	36	32.4	843	26.7	52	33.3	6	18.2	1	10.0	1180	22.2
Dark but lighted	122	7.5	15	6.8	6	5.4	270	8.5	15	9.6	1	3.0	1	10.0	430	8.1
Dawn	42	2.6	4	1.8	4	3.6	78	2.5	10	6.4	0	0.0	0	0.0	138	2.6
Dusk	24	1.5	5	2.3	4	3.6	43	1.4	0	0.0	0	0.0	0	0.0	76	1.4
Unknown	3	0.2	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	4	0.1
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 2-9
Fatal Truck Involvements by Roadway Surface Condition and Truck Configuration
TIFA 2004

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	1313	80.9	179	81.0	97	87.4	2469	78.1	129	82.7	29	87.9	7	70.0	4223	79.5
Wet	240	14.8	34	15.4	12	10.8	508	16.1	18	11.5	4	12.1	2	20.0	818	15.4
Snow or slush	36	2.2	3	1.4	2	1.8	71	2.2	3	1.9	0	0.0	1	10.0	116	2.2
Ice	21	1.3	4	1.8	0	0.0	101	3.2	5	3.2	0	0.0	0	0.0	131	2.5
Sand, dirt, oil	1	0.1	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Other	3	0.2	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	7	0.1
Unknown	8	0.5	1	0.5	0	0.0	4	0.1	1	0.6	0	0.0	0	0.0	14	0.3
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 2-10
Fatal Truck Involvements by Weather Condition and Truck Configuration
TIFA 2004

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	1385	85.4	186	84.2	96	86.5	2554	80.8	135	86.5	31	93.9	8	80.0	4395	82.7
Rain	162	10.0	25	11.3	10	9.0	335	10.6	7	4.5	1	3.0	0	0.0	540	10.2
Sleet	2	0.1	0	0.0	1	0.9	19	0.6	1	0.6	0	0.0	1	10.0	24	0.5
Snow	35	2.2	2	0.9	1	0.9	118	3.7	6	3.8	0	0.0	1	10.0	163	3.1
Fog	29	1.8	3	1.4	1	0.9	65	2.1	4	2.6	0	0.0	0	0.0	102	1.9
Rain & fog	1	0.1	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	6	0.1
Sleet & fog	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Other	6	0.4	4	1.8	2	1.8	61	1.9	3	1.9	1	3.0	0	0.0	77	1.4
Unknown	2	0.1	1	0.5	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	4	0.1
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Roadway distributions

Table 2-11
Fatal Truck Involvements by Roadway Function Class and Truck Configuration
TIFA 2004

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	112	6.9	19	8.6	16	14.4	378	12.0	20	12.8	3	9.1	0	0.0	548	10.3
Freeway/expressway	67	4.1	3	1.4	4	3.6	114	3.6	7	4.5	1	3.0	0	0.0	196	3.7
Other principal artery	197	12.1	17	7.7	9	8.1	232	7.3	11	7.1	2	6.1	1	10.0	469	8.8
Minor artery	143	8.8	13	5.9	9	8.1	92	2.9	4	2.6	1	3.0	2	20.0	264	5.0
Collector	44	2.7	4	1.8	2	1.8	29	0.9	1	0.6	0	0.0	0	0.0	80	1.5
Local street	95	5.9	10	4.5	4	3.6	55	1.7	2	1.3	2	6.1	0	0.0	168	3.2
Unknown urban	8	0.5	1	0.5	1	0.9	5	0.2	0	0.0	0	0.0	0	0.0	15	0.3
Total urban	666	41.1	67	30.3	45	40.5	905	28.6	45	28.8	9	27.3	3	30.0	1740	32.7
<i>Rural</i>																
Interstate	91	5.6	25	11.3	8	7.2	689	21.8	50	32.1	7	21.2	3	30.0	873	16.4
Other principal artery	248	15.3	42	19.0	20	18.0	740	23.4	27	17.3	4	12.1	1	10.0	1082	20.4
Minor artery	254	15.7	30	13.6	11	9.9	437	13.8	14	9.0	5	15.2	2	20.0	753	14.2
Major collector	199	12.3	30	13.6	19	17.1	251	7.9	15	9.6	1	3.0	1	10.0	516	9.7
Minor collector	45	2.8	9	4.1	0	0.0	56	1.8	2	1.3	0	0.0	0	0.0	112	2.1
Local road	104	6.4	17	7.7	7	6.3	61	1.9	1	0.6	7	21.2	0	0.0	197	3.7
Unknown rural	4	0.2	0	0.0	0	0.0	4	0.1	1	0.6	0	0.0	0	0.0	9	0.2
Total rural	945	58.3	153	69.2	65	58.6	2238	70.8	110	70.5	24	72.7	7	70.0	3542	66.7
<i>Unknown</i>	11	0.7	1	0.5	1	0.9	17	0.5	1	0.6	0	0.0	0	0.0	31	0.6
Total urban and rural	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 2-12
Fatal Truck Involvements by Route Signing and Truck Configuration
TIFA 2004

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	199	12.3	46	20.8	24	21.6	1066	33.7	70	44.9	10	30.3	3	30.0	1418	26.7
US highway	316	19.5	39	17.6	22	19.8	862	27.3	23	14.7	8	24.2	3	30.0	1273	24.0
State highway	563	34.7	70	31.7	37	33.3	859	27.2	35	22.4	4	12.1	2	20.0	1570	29.6
County road	252	15.5	35	15.8	10	9.0	186	5.9	19	12.2	4	12.1	0	0.0	506	9.5
Township	48	3.0	4	1.8	3	2.7	25	0.8	0	0.0	1	3.0	0	0.0	81	1.5
Municipality	163	10.0	16	7.2	7	6.3	97	3.1	6	3.8	2	6.1	2	20.0	293	5.5
Frontage road	4	0.2	2	0.9	0	0.0	8	0.3	1	0.6	0	0.0	0	0.0	15	0.3
Other	68	4.2	8	3.6	7	6.3	45	1.4	1	0.6	4	12.1	0	0.0	133	2.5
Unknown	9	0.6	1	0.5	1	0.9	12	0.4	1	0.6	0	0.0	0	0.0	24	0.5
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

**Table 2-13
Fatal Truck Involvements by Relation to Junction and Truck Configuration
TIFA 2004**

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	987	60.9	132	59.7	81	73.0	2126	67.3	111	71.2	24	72.7	7	70.0	3468	65.3
Intersection	452	27.9	54	24.4	18	16.2	635	20.1	26	16.7	4	12.1	3	30.0	1192	22.4
Intersection related	83	5.1	7	3.2	6	5.4	107	3.4	4	2.6	0	0.0	0	0.0	207	3.9
Driveway, alley, etc.	25	1.5	7	3.2	2	1.8	53	1.7	2	1.3	0	0.0	0	0.0	89	1.7
Entrance/exit ramp	12	0.7	2	0.9	1	0.9	61	1.9	3	1.9	0	0.0	0	0.0	79	1.5
Rail grade crossing	7	0.4	1	0.5	0	0.0	11	0.3	0	0.0	0	0.0	0	0.0	19	0.4
In crossover	5	0.3	2	0.9	0	0.0	20	0.6	0	0.0	0	0.0	0	0.0	27	0.5
Driveway access related	35	2.2	7	3.2	2	1.8	56	1.8	1	0.6	3	9.1	0	0.0	104	2.0
<i>Interchange area</i>																
Driveway access	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Other location	15	0.9	9	4.1	1	0.9	89	2.8	8	5.1	2	6.1	0	0.0	124	2.3
Unknown	1	0.1	0	0.0	0	0.0	0	0.0	1	0.6	0	0.0	0	0.0	2	0.0
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

**Table 2-14
Fatal Truck Involvements by Number of Travel Lanes and Truck Configuration
TIFA 2004**

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	16	1.0	5	2.3	0	0.0	51	1.6	4	2.6	1	3.0	0	0.0	77	1.4
2	1232	76.0	171	77.4	83	74.8	2288	72.4	108	69.2	24	72.7	4	40.0	3910	73.6
3	104	6.4	9	4.1	4	3.6	279	8.8	18	11.5	4	12.1	2	20.0	420	7.9
4	184	11.3	30	13.6	18	16.2	428	13.5	18	11.5	2	6.1	3	30.0	683	12.9
5	27	1.7	1	0.5	1	0.9	42	1.3	1	0.6	0	0.0	1	10.0	73	1.4
6	31	1.9	3	1.4	4	3.6	42	1.3	2	1.3	2	6.1	0	0.0	84	1.6
7 or more	10	0.6	1	0.5	0	0.0	15	0.5	0	0.0	0	0.0	0	0.0	26	0.5
Unknown	18	1.1	1	0.5	1	0.9	15	0.5	5	3.2	0	0.0	0	0.0	40	0.8
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 2-15
Fatal Truck Involvements by Trafficway Flow and Truck Configuration
TIFA 2004

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	1051	64.8	135	61.1	71	64.0	1444	45.7	56	35.9	15	45.5	5	50.0	2777	52.3
Median-no barrier	361	22.3	49	22.2	18	16.2	1125	35.6	55	35.3	12	36.4	2	20.0	1622	30.5
Median w/barrier	145	8.9	26	11.8	18	16.2	462	14.6	37	23.7	3	9.1	3	30.0	694	13.1
One way traffic	11	0.7	2	0.9	0	0.0	18	0.6	0	0.0	1	3.0	0	0.0	32	0.6
2-way with left turn lane	31	1.9	5	2.3	3	2.7	45	1.4	2	1.3	2	6.1	0	0.0	88	1.7
Entrance/exit ramp	8	0.5	3	1.4	1	0.9	54	1.7	3	1.9	0	0.0	0	0.0	69	1.3
Unknown	15	0.9	1	0.5	0	0.0	12	0.4	3	1.9	0	0.0	0	0.0	31	0.6
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 2-16
Fatal Truck Involvements by Speed Limit and Truck Configuration
TIFA 2004

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 stated limit	4	0.2	1	0.5	0	0.0	2	0.1	0	0.0	1	3.0	0	0.0	8	0.2
5	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
15	2	0.1	1	0.5	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	6	0.1
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	51	3.1	7	3.2	0	0.0	22	0.7	4	2.6	2	6.1	1	10.0	87	1.6
30	58	3.6	9	4.1	5	4.5	47	1.5	0	0.0	1	3.0	0	0.0	120	2.3
35	124	7.6	6	2.7	7	6.3	96	3.0	3	1.9	2	6.1	0	0.0	238	4.5
40	96	5.9	11	5.0	8	7.2	84	2.7	5	3.2	0	0.0	1	10.0	205	3.9
45	207	12.8	27	12.2	11	9.9	248	7.8	7	4.5	3	9.1	0	0.0	503	9.5
50	108	6.7	15	6.8	7	6.3	134	4.2	4	2.6	1	3.0	0	0.0	269	5.1
55	592	36.5	76	34.4	41	36.9	1089	34.5	57	36.5	10	30.3	4	40.0	1869	35.2
60	69	4.3	9	4.1	3	2.7	184	5.8	11	7.1	2	6.1	0	0.0	278	5.2
65	164	10.1	30	13.6	18	16.2	667	21.1	35	22.4	4	12.1	0	0.0	918	17.3
70	89	5.5	20	9.0	9	8.1	426	13.5	12	7.7	6	18.2	0	0.0	562	10.6
75	13	0.8	8	3.6	1	0.9	124	3.9	17	10.9	1	3.0	2	20.0	166	3.1
90	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	40	2.5	1	0.5	1	0.9	31	1.0	1	0.6	0	0.0	2	20.0	76	1.4
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Accident description

Table 2-17
Fatal Truck Involvements by Accident Type and Truck Configuration
TIFA 2004

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	51	3.1	1	0.5	6	5.4	84	2.7	2	1.3	1	3.0	0	0.0	145	2.7
Hit object in road	226	13.9	27	12.2	15	13.5	302	9.6	24	15.4	3	9.1	4	40.0	601	11.3
<i>Same direction, same trafficway</i>																
Rearend, truck striking	76	4.7	9	4.1	5	4.5	236	7.5	18	11.5	2	6.1	0	0.0	346	6.5
Rearend, truck struck	160	9.9	15	6.8	14	12.6	298	9.4	10	6.4	5	15.2	0	0.0	502	9.4
Sideswipe, in other's lane	5	0.3	1	0.5	3	2.7	20	0.6	1	0.6	0	0.0	0	0.0	30	0.6
Sideswipe, in truck's lane	16	1.0	3	1.4	2	1.8	103	3.3	6	3.8	1	3.0	1	10.0	132	2.5
<i>Opposite direction, same trafficway</i>																
Head-on, in other's lane	47	2.9	6	2.7	4	3.6	35	1.1	1	0.6	0	0.0	0	0.0	93	1.8
Head-on, in truck's lane	190	11.7	19	8.6	17	15.3	343	10.9	21	13.5	3	9.1	0	0.0	593	11.2
Sideswipe, in other's lane	40	2.5	6	2.7	4	3.6	42	1.3	2	1.3	0	0.0	0	0.0	94	1.8
Sideswipe, in truck's lane	143	8.8	26	11.8	11	9.9	351	11.1	19	12.2	4	12.1	1	10.0	555	10.4
<i>Change trafficway, one vehicle turning</i>																
Truck turn across path	55	3.4	17	7.7	2	1.8	114	3.6	3	1.9	1	3.0	0	0.0	192	3.6
Other turn across path	124	7.6	19	8.6	9	8.1	160	5.1	7	4.5	4	12.1	0	0.0	323	6.1
<i>Intersecting paths, both going straight</i>																
Truck into side of other	185	11.4	13	5.9	5	4.5	250	7.9	12	7.7	0	0.0	0	0.0	465	8.8
Other into side of truck	39	2.4	8	3.6	1	0.9	124	3.9	4	2.6	0	0.0	0	0.0	176	3.3
<i>Other accident types</i>																
Truck backed into other	7	0.4	1	0.5	1	0.9	19	0.6	0	0.0	0	0.0	0	0.0	28	0.5
Other backed into truck	2	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Untripped roll	53	3.3	4	1.8	1	0.9	90	2.8	3	1.9	0	0.0	0	0.0	151	2.8
Other	187	11.5	38	17.2	9	8.1	498	15.8	21	13.5	9	27.3	1	10.0	763	14.4
Unknown	16	1.0	8	3.6	2	1.8	89	2.8	2	1.3	0	0.0	3	30.0	120	2.3
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

**Table 2-18
Fatal Truck Involvements by First Harmful Event and Truck Configuration
TIFA 2004**

First harmful event	Strt truck		Strt/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.
<i>Noncollision event</i>																
Overturn	67	4.1	7	3.2	3	2.7	109	3.4	4	2.6	1	3.0	0	0.0	191	3.6
Fell from vehicle	17	1.0	5	2.3	0	0.0	4	0.1	0	0.0	1	3.0	0	0.0	27	0.5
Injured in vehicle	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Other noncollision	5	0.3	1	0.5	0	0.0	7	0.2	1	0.6	0	0.0	0	0.0	14	0.3
Jackknife	0	0.0	0	0.0	0	0.0	12	0.4	0	0.0	0	0.0	0	0.0	12	0.2
Cargo/equip loss or shift	1	0.1	0	0.0	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	9	0.2
<i>Collision with nonfixed object</i>																
Pedestrian	117	7.2	17	7.7	6	5.4	154	4.9	11	7.1	3	9.1	4	40.0	312	5.9
Pedalcycle	40	2.5	6	2.7	2	1.8	33	1.0	6	3.8	0	0.0	0	0.0	87	1.6
Railway train	6	0.4	1	0.5	0	0.0	10	0.3	0	0.0	0	0.0	0	0.0	17	0.3
Animal	0	0.0	0	0.0	1	0.9	5	0.2	0	0.0	0	0.0	0	0.0	6	0.1
Motor vehicle in transport	1195	73.7	165	74.7	83	74.8	2370	75.0	112	71.8	24	72.7	5	50.0	3954	74.4
Veh. in transport - other roadway	32	2.0	8	3.6	2	1.8	156	4.9	9	5.8	1	3.0	0	0.0	208	3.9
Parked motor vehicle	8	0.5	1	0.5	1	0.9	20	0.6	0	0.0	1	3.0	0	0.0	31	0.6
Other type - nonmotorist	3	0.2	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	7	0.1
Other object - not fixed	4	0.2	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	9	0.2
Transport device used as equip	4	0.2	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	5	0.1
Ridden animal/conveyance	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Struck by falling/shifting cargo	0	0.0	0	0.0	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	8	0.2
<i>Collision with fixed object</i>																
Boulder	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Building	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Impact attenuator	1	0.1	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Bridge pier or abutment	2	0.1	0	0.0	0	0.0	10	0.3	0	0.0	0	0.0	0	0.0	12	0.2
Bridge rail	0	0.0	0	0.0	2	1.8	17	0.5	2	1.3	0	0.0	0	0.0	21	0.4
Guardrail	22	1.4	3	1.4	5	4.5	77	2.4	6	3.8	0	0.0	0	0.0	113	2.1
Concrete traffic barrier	6	0.4	0	0.0	1	0.9	21	0.7	0	0.0	0	0.0	0	0.0	28	0.5
Other longitudinal barrier type	0	0.0	1	0.5	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Highway/traffic sign post	6	0.4	0	0.0	0	0.0	6	0.2	1	0.6	0	0.0	0	0.0	13	0.2
Overhead sign support	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Luminaire/light support	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Utility pole	1	0.1	0	0.0	0	0.0	7	0.2	0	0.0	0	0.0	0	0.0	8	0.2
Other post, pole or supports	2	0.1	1	0.5	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	6	0.1
Culvert	9	0.6	0	0.0	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	15	0.3
Curb	7	0.4	0	0.0	1	0.9	12	0.4	1	0.6	0	0.0	0	0.0	21	0.4
Ditch	9	0.6	0	0.0	2	1.8	14	0.4	0	0.0	0	0.0	0	0.0	25	0.5
Embankment - earth	4	0.2	1	0.5	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	13	0.2
Embankment - rock,stone,etc.	3	0.2	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	4	0.1
Embankment - type unknown	7	0.4	1	0.5	0	0.0	9	0.3	1	0.6	1	3.0	0	0.0	19	0.4
Fence	2	0.1	0	0.0	0	0.0	7	0.2	0	0.0	0	0.0	1	10.0	10	0.2
Wall	4	0.2	0	0.0	1	0.9	2	0.1	0	0.0	0	0.0	0	0.0	7	0.1
Shrubbery	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Tree	16	1.0	1	0.5	1	0.9	27	0.9	1	0.6	0	0.0	0	0.0	46	0.9
Other fixed object	4	0.2	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	7	0.1
Snowbank	0	0.0	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Bridge overhead structure	6	0.4	0	0.0	0	0.0	2	0.1	0	0.0	1	3.0	0	0.0	9	0.2
Guardrail end	4	0.2	1	0.5	0	0.0	7	0.2	1	0.6	0	0.0	0	0.0	13	0.2
Mail box	4	0.2	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	5	0.1
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 2-19
Fatal Truck Involvements by Vehicle Role in Accident and Truck Configuration
TIFA 2004

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	49	3.0	8	3.6	2	1.8	54	1.7	1	0.6	1	3.0	0	0.0	115	2.2
Striking	909	56.0	109	49.3	57	51.4	1630	51.6	85	54.5	19	57.6	6	60.0	2815	53.0
Struck	611	37.7	97	43.9	48	43.2	1341	42.4	65	41.7	12	36.4	4	40.0	2178	41.0
Both	50	3.1	6	2.7	4	3.6	130	4.1	4	2.6	1	3.0	0	0.0	195	3.7
Unknown	3	0.2	1	0.5	0	0.0	5	0.2	1	0.6	0	0.0	0	0.0	10	0.2
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 2-20
Fatal Truck Involvements by Manner of Collision and Truck Configuration
TIFA 2004

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	395	24.4	48	21.7	26	23.4	626	19.8	35	22.4	8	24.2	5	50.0	1143	21.5
Rear-end	265	16.3	35	15.8	23	20.7	718	22.7	38	24.4	9	27.3	1	10.0	1089	20.5
Head-on	288	17.8	38	17.2	25	22.5	464	14.7	25	16.0	7	21.2	1	10.0	848	16.0
Front-to-side: same direction	33	2.0	9	4.1	1	0.9	116	3.7	4	2.6	0	0.0	0	0.0	163	3.1
Front-to-side: opp direction	224	13.8	31	14.0	13	11.7	408	12.9	19	12.2	5	15.2	2	20.0	702	13.2
Front-to-side: right angle	317	19.5	49	22.2	16	14.4	576	18.2	23	14.7	1	3.0	1	10.0	983	18.5
Front-to-side: other	7	0.4	2	0.9	1	0.9	10	0.3	0	0.0	0	0.0	0	0.0	20	0.4
Sideswipe: same direction	25	1.5	3	1.4	3	2.7	96	3.0	5	3.2	3	9.1	0	0.0	135	2.5
Sideswipe: opp direction	50	3.1	4	1.8	3	2.7	113	3.6	5	3.2	0	0.0	0	0.0	175	3.3
Rear-to-side	12	0.7	1	0.5	0	0.0	13	0.4	2	1.3	0	0.0	0	0.0	28	0.5
Other	4	0.2	1	0.5	0	0.0	17	0.5	0	0.0	0	0.0	0	0.0	22	0.4
Unknown	2	0.1	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 2-21
Fatal Truck Involvements by Rollover Status and Truck Configuration
TIFA 2004

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	1380	85.1	190	86.0	98	88.3	2785	88.1	127	81.4	30	90.9	9	90.0	4619	86.9
First event	65	4.0	7	3.2	3	2.7	105	3.3	1	0.6	1	3.0	0	0.0	182	3.4
Subsequent event	177	10.9	24	10.9	10	9.0	270	8.5	28	17.9	2	6.1	1	10.0	512	9.6
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 2-22
Fatal Truck Involvements by Jackknife Status and Truck Configuration
TIFA 2004

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	1622	100.0	214	96.8	111	100.0	2908	92.0	132	84.6	30	90.9	10	100.0	5027	94.6
First event	0	0.0	1	0.5	0	0.0	69	2.2	6	3.8	0	0.0	0	0.0	76	1.4
Subsequent event	0	0.0	6	2.7	0	0.0	183	5.8	18	11.5	3	9.1	0	0.0	210	4.0
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 2-23
Fatal Truck Involvements by Fire Occurrence and Truck Configuration
TIFA 2004

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	1577	97.2	215	97.3	109	98.2	2930	92.7	144	92.3	32	97.0	10	100.0	5017	94.4
Fire in vehicle	45	2.8	6	2.7	2	1.8	230	7.3	12	7.7	1	3.0	0	0.0	296	5.6
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 2-24
Fatal Truck Involvements by Cargo Spillage and Truck Configuration
TIFA 2004

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	1263	77.9	177	80.1	12	10.8	2538	80.3	118	75.6	22	66.7	5	50.0	4135	77.8
Nonhazarous	233	14.4	31	14.0	2	1.8	396	12.5	25	16.0	5	15.2	2	20.0	694	13.1
Hazardous	10	0.6	3	1.4	0	0.0	42	1.3	2	1.3	0	0.0	0	0.0	57	1.1
Unknown	116	7.2	10	4.5	97	87.4	184	5.8	11	7.1	6	18.2	3	30.0	427	8.0
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Vehicle

This section provides statistics that describe the physical configuration of trucks involved in a fatal accident in 2004. 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 5,313 trucks involved in a fatal accident in 2004, there were 3,160 tractor-semitrailers, 1,622 straight trucks with no trailer, 221 straight trucks pulling a trailer, 98 bobtail tractors, and 156 tractors pulling two trailers.

- Straight trucks with no trailer represented 30.5% of all trucks involved in a fatal accident.
- Tractor-semitrailers accounted for 59.5% of the trucks.
- Over half of the tractor-semitrailers pulled a van trailer - either a dry box van or a refrigerated van.
- 21.5% of the straight trucks had dump bodies. The next most common straight truck cargo body was a van body, with 20.6%.
- 31.7% of the trucks were empty, 18.9% were carrying general freight, and 13.6% were carrying solids in bulk (gravel, soil, etc.) at the time of the accident.
- 14 trucks, all combination vehicles, were longer than 100 feet; 39 weighed more than 100,000 pounds.
- 74.2% of the trucks involved in a fatal accident were Class 8, the heaviest Gross Vehicle Weight Rating (GVWR) class.
- 47.0% of the trucks were operated by interstate for-hire carriers, 17.7% by interstate private carriers, and 17.5% by intrastate private carriers.
- 33.7% of the trucks were on local trips (within 50 miles of base) when involved in the fatal accident.

**Table 3-1
Fatal Truck Involvements by Truck Configuration
TIFA 2004**

Configuration	No.	Pct.
<i>Straight trucks</i>		
Straight truck only	1622	30.5
<i>Straight truck, 1 trailer</i>		
Straight + full trailer	41	0.8
Straight + other	138	2.6
Straight + other, gooseneck hitch	42	0.8
<i>Subtotal</i>	221	4.2
<i>Other straight combinations</i>		
Wrecker + tow	11	0.2
Straight, unknown if pulling trailer	11	0.2
Straight + other with gooseneck hitch + other	1	0.0
<i>Subtotal</i>	23	0.4
<i>Total straight trucks</i>	1866	35.1
<i>Tractor combinations</i>		
<i>Tractor, no trailers</i>		
Bobtail tractor	98	1.8
Tractor carrying cargo	13	0.2
<i>Subtotal</i>	111	2.1
<i>Tractor, 1 trailer</i>		
Tractor and semitrailer	3160	59.5
Tractor + other (nonsemitrailer)	5	0.1
<i>Subtotal</i>	3165	59.6
<i>Tractor, 2 trailers</i>		
Double with A dolly	81	1.5
Double, B train	2	0.0
Double, C dolly	4	0.1
Double with unknown dolly	7	0.1
Tractor + semitrailer + full trailer	58	1.1
Tractor + semitrailer + other	1	0.0
Tractor + semitrailer + unknown	3	0.1
<i>Subtotal</i>	156	2.9
<i>Tractor, 3 trailers</i>		
Triple with A dollies	0	0.0
<i>Subtotal</i>	0	0.0
<i>Other tractor combinations</i>		
Tractor + jeep + semi + jeep	1	0.0
Tractor + semi + jeep	1	0.0
Tractor + jeep + semi	2	0.0
Tractor + 2 saddlemount tractors	1	0.0
<i>Subtotal</i>	5	0.1
<i>Total tractors</i>	3437	64.7
<i>Unknown</i>	10	0.2
Grand total	5313	100.0

Table 3-2
Fatal Truck Involvements by Cargo Body Style and Truck Configuration
TIFA 2004

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	111	100.0	0	0.0	0	0.0	0	0.0	0	0.0	111	2.1
Van	334	20.6	18	8.1	0	0.0	1266	40.1	86	55.1	0	0.0	0	0.0	1704	32.1
Open top van	1	0.1	1	0.5	0	0.0	49	1.6	1	0.6	0	0.0	0	0.0	52	1.0
Refrigerated van	59	3.6	0	0.0	0	0.0	410	13.0	5	3.2	0	0.0	0	0.0	474	8.9
Livestock carrier	1	0.1	0	0.0	0	0.0	40	1.3	0	0.0	0	0.0	0	0.0	41	0.8
Flatbed	93	5.7	28	12.7	0	0.0	430	13.6	14	9.0	3	9.1	0	0.0	568	10.7
Lowboy	0	0.0	0	0.0	0	0.0	56	1.8	1	0.6	4	12.1	0	0.0	61	1.1
Flatbed with equip.	29	1.8	2	0.9	0	0.0	8	0.3	0	0.0	1	3.0	0	0.0	40	0.8
Flatbed with sides	54	3.3	8	3.6	0	0.0	32	1.0	1	0.6	0	0.0	0	0.0	95	1.8
Pole/logging	13	0.8	6	2.7	0	0.0	118	3.7	2	1.3	0	0.0	0	0.0	139	2.6
Tank:liquid/gaseous	87	5.4	13	5.9	0	0.0	242	7.7	7	4.5	0	0.0	0	0.0	349	6.6
Tank:dry bulk	1	0.1	0	0.0	0	0.0	54	1.7	8	5.1	0	0.0	0	0.0	63	1.2
Auto carrier	1	0.1	12	5.4	0	0.0	14	0.4	0	0.0	0	0.0	0	0.0	27	0.5
Dump	348	21.5	46	20.8	0	0.0	273	8.6	6	3.8	3	9.1	0	0.0	676	12.7
Hopper bottom	4	0.2	0	0.0	0	0.0	87	2.8	22	14.1	0	0.0	0	0.0	113	2.1
Refuse	127	7.8	3	1.4	0	0.0	9	0.3	0	0.0	0	0.0	0	0.0	139	2.6
Other	457	28.2	80	36.2	0	0.0	34	1.1	3	1.9	22	66.7	0	0.0	596	11.2
Unknown	13	0.8	4	1.8	0	0.0	38	1.2	0	0.0	0	0.0	10	100.0	65	1.2
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 3-3
Fatal Truck Involvements by Type of Cargo and Truck Configuration
TIFA 2004

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	580	35.8	117	52.9	98	88.3	858	27.2	29	18.6	0	0.0	0	0.0	1682	31.7
General freight	164	10.1	3	1.4	0	0.0	764	24.2	71	45.5	0	0.0	0	0.0	1002	18.9
Household goods	20	1.2	6	2.7	0	0.0	17	0.5	0	0.0	0	0.0	0	0.0	43	0.8
Building materials	17	1.0	1	0.5	0	0.0	42	1.3	0	0.0	0	0.0	0	0.0	60	1.1
Metal (coils, sheets)	7	0.4	0	0.0	0	0.0	111	3.5	1	0.6	0	0.0	0	0.0	119	2.2
Heavy machinery	6	0.4	2	0.9	0	0.0	66	2.1	1	0.6	2	6.1	0	0.0	77	1.4
Large objects	15	0.9	1	0.5	0	0.0	44	1.4	3	1.9	3	9.1	0	0.0	66	1.2
Motor vehicles	20	1.2	10	4.5	0	0.0	13	0.4	0	0.0	4	12.1	0	0.0	47	0.9
Piggyback/towaway	0	0.0	0	0.0	11	9.9	0	0.0	0	0.0	7	21.2	0	0.0	18	0.3
Gases in bulk	4	0.2	1	0.5	0	0.0	11	0.3	0	0.0	0	0.0	0	0.0	16	0.3
Solids in bulk	324	20.0	14	6.3	0	0.0	360	11.4	24	15.4	0	0.0	0	0.0	722	13.6
Liquids in bulk	64	3.9	9	4.1	0	0.0	133	4.2	5	3.2	0	0.0	0	0.0	211	4.0
Explosives	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Logs/poles/lumber	18	1.1	4	1.8	0	0.0	127	4.0	3	1.9	0	0.0	0	0.0	152	2.9
Refrigerated foods	40	2.5	0	0.0	0	0.0	256	8.1	3	1.9	0	0.0	0	0.0	299	5.6
Mobile home	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	12.1	0	0.0	4	0.1
Farm products	19	1.2	1	0.5	0	0.0	38	1.2	4	2.6	0	0.0	0	0.0	62	1.2
Live animals	3	0.2	1	0.5	0	0.0	31	1.0	0	0.0	0	0.0	0	0.0	35	0.7
Other	195	12.0	26	11.8	0	0.0	9	0.3	0	0.0	0	0.0	0	0.0	230	4.3
Cargo, unk. type	7	0.4	1	0.5	0	0.0	46	1.5	2	1.3	0	0.0	0	0.0	56	1.1
Saddlemount tractor	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	1	3.0	0	0.0	2	0.0
Unknown	119	7.3	24	10.9	2	1.8	232	7.3	10	6.4	12	36.4	10	100.0	409	7.7
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

**Table 3-4
Fatal Truck Involvements by Cab Style and Truck Configuration
TIFA 2004**

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	1397	86.1	209	94.6	102	91.9	3068	97.1	143	91.7	30	90.9	5	50.0	4954	93.2
Cabover or cab-forward	222	13.7	12	5.4	9	8.1	74	2.3	13	8.3	3	9.1	0	0.0	333	6.3
Unknown	3	0.2	0	0.0	0	0.0	18	0.6	0	0.0	0	0.0	5	50.0	26	0.5
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

**Table 3-5
Fatal Truck Involvements by Cab Style and Power Unit Model Year
TIFA 2004**

Power unit model year	Conventional		Cabover		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
1960	1	0.0	0	0.0	0	0.0	1	0.0
1966	1	0.0	0	0.0	0	0.0	1	0.0
1967	1	0.0	0	0.0	0	0.0	1	0.0
1968	1	0.0	0	0.0	0	0.0	1	0.0
1969	2	0.0	0	0.0	0	0.0	2	0.0
1970	7	0.1	1	0.3	0	0.0	8	0.2
1971	2	0.0	1	0.3	0	0.0	3	0.1
1972	8	0.2	0	0.0	0	0.0	8	0.2
1973	5	0.1	2	0.6	0	0.0	7	0.1
1974	11	0.2	1	0.3	0	0.0	12	0.2
1975	6	0.1	1	0.3	1	3.8	8	0.2
1976	4	0.1	1	0.3	0	0.0	5	0.1
1977	10	0.2	4	1.2	0	0.0	14	0.3
1978	13	0.3	0	0.0	0	0.0	13	0.2
1979	15	0.3	2	0.6	0	0.0	17	0.3
1980	16	0.3	0	0.0	0	0.0	16	0.3
1981	19	0.4	1	0.3	0	0.0	20	0.4
1982	11	0.2	2	0.6	0	0.0	13	0.2
1983	14	0.3	2	0.6	0	0.0	16	0.3
1984	32	0.6	4	1.2	0	0.0	36	0.7
1985	34	0.7	7	2.1	1	3.8	42	0.8
1986	37	0.7	12	3.6	0	0.0	49	0.9
1987	58	1.2	10	3.0	0	0.0	68	1.3
1988	63	1.3	6	1.8	1	3.8	70	1.3
1989	88	1.8	10	3.0	0	0.0	98	1.8
1990	80	1.6	16	4.8	0	0.0	96	1.8
1991	71	1.4	9	2.7	1	3.8	81	1.5
1992	93	1.9	6	1.8	0	0.0	99	1.9
1993	148	3.0	12	3.6	0	0.0	160	3.0
1994	181	3.7	17	5.1	0	0.0	198	3.7
1995	296	6.0	22	6.6	1	3.8	319	6.0
1996	289	5.8	14	4.2	0	0.0	303	5.7
1997	343	6.9	13	3.9	0	0.0	356	6.7
1998	384	7.8	21	6.3	1	3.8	406	7.6
1999	527	10.6	27	8.1	0	0.0	554	10.4
2000	584	11.8	23	6.9	0	0.0	607	11.4
2001	393	7.9	29	8.7	1	3.8	423	8.0
2002	269	5.4	21	6.3	0	0.0	290	5.5
2003	377	7.6	23	6.9	0	0.0	400	7.5
2004	366	7.4	13	3.9	0	0.0	379	7.1
2005	90	1.8	0	0.0	0	0.0	90	1.7
Unknown	4	0.1	0	0.0	19	73.1	23	0.4
Total	4954	100.0	333	100.0	26	100.0	5313	100.0

**Table 3-6
Fatal Truck Involvements by Power Unit Model Year and Truck Configuration
TIFA 2004**

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.
1960	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	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
1967	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
1968	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
1969	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
1970	6	0.4	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	8	0.2
1971	3	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
1972	6	0.4	1	0.5	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	8	0.2
1973	5	0.3	1	0.5	0	0.0	0	0.0	0	0.0	1	3.0	0	0.0	7	0.1
1974	9	0.6	0	0.0	1	0.9	2	0.1	0	0.0	0	0.0	0	0.0	12	0.2
1975	5	0.3	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	8	0.2
1976	2	0.1	1	0.5	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	5	0.1
1977	10	0.6	0	0.0	0	0.0	3	0.1	1	0.6	0	0.0	0	0.0	14	0.3
1978	9	0.6	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	13	0.2
1979	12	0.7	2	0.9	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	17	0.3
1980	10	0.6	3	1.4	2	1.8	1	0.0	0	0.0	0	0.0	0	0.0	16	0.3
1981	11	0.7	4	1.8	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	20	0.4
1982	8	0.5	0	0.0	1	0.9	4	0.1	0	0.0	0	0.0	0	0.0	13	0.2
1983	9	0.6	1	0.5	2	1.8	3	0.1	0	0.0	1	3.0	0	0.0	16	0.3
1984	16	1.0	2	0.9	0	0.0	18	0.6	0	0.0	0	0.0	0	0.0	36	0.7
1985	15	0.9	1	0.5	3	2.7	21	0.7	1	0.6	1	3.0	0	0.0	42	0.8
1986	33	2.0	1	0.5	1	0.9	14	0.4	0	0.0	0	0.0	0	0.0	49	0.9
1987	26	1.6	6	2.7	1	0.9	34	1.1	1	0.6	0	0.0	0	0.0	68	1.3
1988	28	1.7	5	2.3	1	0.9	34	1.1	2	1.3	0	0.0	0	0.0	70	1.3
1989	32	2.0	6	2.7	6	5.4	50	1.6	3	1.9	1	3.0	0	0.0	98	1.8
1990	39	2.4	10	4.5	4	3.6	35	1.1	6	3.8	2	6.1	0	0.0	96	1.8
1991	30	1.8	4	1.8	3	2.7	40	1.3	3	1.9	1	3.0	0	0.0	81	1.5
1992	29	1.8	4	1.8	3	2.7	61	1.9	1	0.6	1	3.0	0	0.0	99	1.9
1993	51	3.1	8	3.6	8	7.2	88	2.8	2	1.3	3	9.1	0	0.0	160	3.0
1994	53	3.3	5	2.3	8	7.2	126	4.0	5	3.2	0	0.0	1	10.0	198	3.7
1995	87	5.4	9	4.1	7	6.3	205	6.5	8	5.1	3	9.1	0	0.0	319	6.0
1996	68	4.2	8	3.6	8	7.2	209	6.6	9	5.8	1	3.0	0	0.0	303	5.7
1997	100	6.2	11	5.0	3	2.7	228	7.2	11	7.1	3	9.1	0	0.0	356	6.7
1998	99	6.1	11	5.0	8	7.2	272	8.6	14	9.0	2	6.1	0	0.0	406	7.6
1999	149	9.2	21	9.5	12	10.8	367	11.6	5	3.2	0	0.0	0	0.0	554	10.4
2000	164	10.1	12	5.4	4	3.6	403	12.8	21	13.5	3	9.1	0	0.0	607	11.4
2001	144	8.9	22	10.0	7	6.3	231	7.3	16	10.3	0	0.0	3	30.0	423	8.0
2002	114	7.0	25	11.3	4	3.6	139	4.4	5	3.2	3	9.1	0	0.0	290	5.5
2003	108	6.7	22	10.0	7	6.3	240	7.6	19	12.2	3	9.1	1	10.0	400	7.5
2004	110	6.8	15	6.8	4	3.6	229	7.2	17	10.9	4	12.1	0	0.0	379	7.1
2005	15	0.9	0	0.0	3	2.7	67	2.1	5	3.2	0	0.0	0	0.0	90	1.7
Unknown	1	0.1	0	0.0	0	0.0	16	0.5	1	0.6	0	0.0	5	50.0	23	0.4
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

**Table 3-7
Fatal Truck Involvements by Truck Length and Truck Configuration
TIFA 2004**

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.
16-20	281	17.3	0	0.0	8	7.2	0	0.0	0	0.0	1	3.0	0	0.0	290	5.5
21-25	489	30.1	0	0.0	66	59.5	0	0.0	0	0.0	0	0.0	0	0.0	555	10.4
26-30	371	22.9	3	1.4	32	28.8	1	0.0	0	0.0	0	0.0	0	0.0	407	7.7
31-35	272	16.8	19	8.6	3	2.7	5	0.2	0	0.0	0	0.0	0	0.0	299	5.6
36-40	60	3.7	30	13.6	0	0.0	28	0.9	0	0.0	1	3.0	0	0.0	119	2.2
41-45	12	0.7	39	17.6	0	0.0	68	2.2	0	0.0	3	9.1	1	10.0	123	2.3
46-50	1	0.1	25	11.3	0	0.0	67	2.1	0	0.0	2	6.1	0	0.0	95	1.8
51-55	1	0.1	23	10.4	0	0.0	149	4.7	0	0.0	1	3.0	0	0.0	174	3.3
56-60	1	0.1	17	7.7	0	0.0	351	11.1	2	1.3	0	0.0	0	0.0	371	7.0
61-65	0	0.0	14	6.3	0	0.0	727	23.0	19	12.2	0	0.0	0	0.0	760	14.3
66-70	0	0.0	7	3.2	0	0.0	970	30.7	12	7.7	2	6.1	0	0.0	991	18.7
71-75	0	0.0	11	5.0	0	0.0	535	16.9	66	42.3	0	0.0	0	0.0	612	11.5
76-80	0	0.0	3	1.4	0	0.0	31	1.0	26	16.7	1	3.0	0	0.0	61	1.1
81-85	0	0.0	1	0.5	0	0.0	3	0.1	7	4.5	1	3.0	0	0.0	12	0.2
86-90	0	0.0	1	0.5	0	0.0	2	0.1	6	3.8	2	6.1	0	0.0	11	0.2
91-95	0	0.0	0	0.0	0	0.0	1	0.0	3	1.9	1	3.0	0	0.0	5	0.1
96-100	0	0.0	0	0.0	0	0.0	0	0.0	3	1.9	2	6.1	0	0.0	5	0.1
101 +	0	0.0	0	0.0	0	0.0	1	0.0	8	5.1	2	6.1	3	30.0	14	0.3
Unknown	134	8.3	28	12.7	2	1.8	221	7.0	4	2.6	14	42.4	6	60.0	409	7.7
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 3-8
Fatal Truck Involvements by Gross Combination Weight and Truck Configuration
TIFA 2004

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	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
5,001-10,000	291	17.9	12	5.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	303	5.7
10,001-15,000	277	17.1	36	16.3	14	12.6	0	0.0	0	0.0	4	12.1	0	0.0	331	6.2
15,001-20,000	130	8.0	26	11.8	82	73.9	5	0.2	0	0.0	5	15.2	0	0.0	248	4.7
20,001-25,000	135	8.3	14	6.3	8	7.2	47	1.5	2	1.3	2	6.1	0	0.0	208	3.9
25,001-30,000	125	7.7	8	3.6	5	4.5	436	13.8	4	2.6	1	3.0	0	0.0	579	10.9
30,001-35,000	57	3.5	4	1.8	1	0.9	358	11.3	12	7.7	0	0.0	0	0.0	432	8.1
35,001-40,000	38	2.3	5	2.3	0	0.0	140	4.4	6	3.8	1	3.0	0	0.0	190	3.6
40,001-45,000	24	1.5	2	0.9	0	0.0	85	2.7	6	3.8	0	0.0	0	0.0	117	2.2
45,001-50,000	27	1.7	4	1.8	0	0.0	93	2.9	7	4.5	0	0.0	0	0.0	131	2.5
50,001-55,000	34	2.1	5	2.3	0	0.0	107	3.4	15	9.6	0	0.0	0	0.0	161	3.0
55,001-60,000	23	1.4	1	0.5	0	0.0	96	3.0	10	6.4	2	6.1	0	0.0	132	2.5
60,001-65,000	21	1.3	1	0.5	0	0.0	107	3.4	6	3.8	0	0.0	0	0.0	135	2.5
65,001-70,000	33	2.0	1	0.5	0	0.0	165	5.2	10	6.4	0	0.0	0	0.0	209	3.9
70,001-75,000	19	1.2	3	1.4	0	0.0	288	9.1	7	4.5	0	0.0	0	0.0	317	6.0
75,001-80,000	21	1.3	11	5.0	0	0.0	458	14.5	14	9.0	0	0.0	0	0.0	504	9.5
80,001-85,000	4	0.2	3	1.4	0	0.0	58	1.8	7	4.5	0	0.0	0	0.0	72	1.4
85,001-90,000	1	0.1	0	0.0	0	0.0	20	0.6	2	1.3	0	0.0	0	0.0	23	0.4
90,001-95,000	1	0.1	3	1.4	0	0.0	7	0.2	2	1.3	0	0.0	0	0.0	13	0.2
95,001-100,000	1	0.1	2	0.9	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	11	0.2
100,001-110,000	0	0.0	4	1.8	0	0.0	12	0.4	5	3.2	0	0.0	0	0.0	21	0.4
110,001-120,000	0	0.0	0	0.0	0	0.0	5	0.2	1	0.6	0	0.0	0	0.0	6	0.1
120,001-130,000	0	0.0	0	0.0	0	0.0	2	0.1	2	1.3	1	3.0	0	0.0	5	0.1
130,001-140,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
140,001-150,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	3.0	1	10.0	2	0.0
150,001-160,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
160,001-170,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	3.0	0	0.0	1	0.0
170,001 and over	0	0.0	0	0.0	0	0.0	0	0.0	1	0.6	2	6.1	1	10.0	4	0.1
Unknown	358	22.1	76	34.4	1	0.9	663	21.0	37	23.7	13	39.4	8	70.0	1155	21.7
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 3-9
Fatal Truck Involvements by Gross Vehicle Weight Rating and Truck Configuration
TIFA 2004

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	341	21.0	89	40.3	0	0.0	1	0.0	0	0.0	7	21.2	1	10.0	439	8.3
Class 4: 14,001-16,000	122	7.5	15	6.8	0	0.0	0	0.0	0	0.0	6	18.2	0	0.0	143	2.7
Class 5: 16,001-19,500	72	4.4	7	3.2	0	0.0	0	0.0	0	0.0	1	3.0	0	0.0	80	1.5
Class 6: 19,501-26,000	251	15.5	22	10.0	0	0.0	2	0.1	0	0.0	4	12.1	0	0.0	279	5.3
Class 7: 26,001-33,000	197	12.1	18	8.1	7	6.3	62	2.0	58	37.2	5	15.2	0	0.0	347	6.5
Class 8: 33,001 or more	599	36.9	66	29.9	102	91.9	3067	97.1	95	60.9	8	24.2	4	40.0	3941	74.2
Unknown	40	2.5	4	1.8	2	1.8	28	0.9	3	1.9	2	6.1	5	50.0	84	1.6
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	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 2004

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	392	24.2	53	24.0	22	19.8	452	14.3	14	9.0	6	18.2	0	0.0	939	17.7
Interstate for-hire	146	9.0	29	13.1	65	58.6	2138	67.7	106	67.9	8	24.2	3	30.0	2495	47.0
Intrastate private	624	38.5	83	37.6	8	7.2	200	6.3	8	5.1	3	9.1	2	20.0	928	17.5
Intrastate for-hire	167	10.3	14	6.3	8	7.2	193	6.1	21	13.5	5	15.2	0	0.0	408	7.7
Government owned	73	4.5	7	3.2	0	0.0	10	0.3	0	0.0	1	3.0	0	0.0	91	1.7
Daily rental	30	1.8	11	5.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	42	0.8
Unknown	190	11.7	24	10.9	8	7.2	166	5.3	7	4.5	10	30.3	5	50.0	410	7.7
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 3-11
Fatal Truck Involvements by Trip Type and Truck Configuration
TIFA 2004

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	1050	64.7	127	57.5	45	40.5	524	16.6	30	19.2	13	39.4	1	10.0	1790	33.7
51-100 miles	199	12.3	21	9.5	17	15.3	406	12.8	14	9.0	2	6.1	0	0.0	659	12.4
101-200	54	3.3	12	5.4	7	6.3	376	11.9	20	12.8	1	3.0	1	10.0	471	8.9
201-500	29	1.8	12	5.4	11	9.9	533	16.9	54	34.6	6	18.2	1	10.0	646	12.2
Over 500	16	1.0	16	7.2	6	5.4	683	21.6	17	10.9	1	3.0	0	0.0	739	13.9
Unk over-the-road dist.	18	1.1	3	1.4	2	1.8	117	3.7	1	0.6	1	3.0	0	0.0	142	2.7
Unknown	256	15.8	30	13.6	23	20.7	521	16.5	20	12.8	9	27.3	7	70.0	866	16.3
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	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.

- 2.2% of truck drivers involved in a fatal traffic accident had been drinking.
- Drug use was reported for 0.9% 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.
- 1.5% of truck drivers involved in a fatal accident were recorded as drowsy or asleep.
- Failure to stay in lane was the most common driver factor recorded (10.8%), followed by driving too fast (8.0%), inattentive (5.0%), and failure to yield (4.6%). Cellular phone in use was cited for 0.2% of drivers.
- 59.7% 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 2004**

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	1560	96.2	216	97.7	108	97.3	3115	98.6	155	99.4	32	97.0	10	100.0	5196	97.8
Drinking	62	3.8	5	2.3	3	2.7	45	1.4	1	0.6	1	3.0	0	0.0	117	2.2
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

**Table 4-2
Fatal Truck Involvements by Driver Drug Use and Truck Configuration
TIFA 2004**

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	445	27.4	57	25.8	28	25.2	939	29.7	39	25.0	6	18.2	3	30.0	1517	28.6
Drugs involved	15	0.9	0	0.0	1	0.9	31	1.0	1	0.6	0	0.0	0	0.0	48	0.9
Not reported	1059	65.3	147	66.5	75	67.6	2059	65.2	111	71.2	23	69.7	7	70.0	3481	65.5
Reported unk	103	6.4	17	7.7	7	6.3	131	4.1	5	3.2	4	12.1	0	0.0	267	5.0
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

**Table 4-3
Fatal Truck Involvements by Driver Age and Truck Configuration
TIFA 2004**

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	39	2.4	5	2.3	1	0.9	12	0.4	0	0.0	1	3.0	1	10.0	59	1.1
21-25	135	8.3	29	13.1	5	4.5	118	3.7	4	2.6	4	12.1	0	0.0	295	5.6
26-30	159	9.8	23	10.4	8	7.2	239	7.6	10	6.4	3	9.1	0	0.0	442	8.3
31-35	198	12.2	28	12.7	10	9.0	366	11.6	16	10.3	1	3.0	1	10.0	620	11.7
36-40	238	14.7	29	13.1	15	13.5	472	14.9	13	8.3	2	6.1	1	10.0	770	14.5
41-45	213	13.1	30	13.6	16	14.4	495	15.7	29	18.6	5	15.2	1	10.0	789	14.9
46-50	214	13.2	19	8.6	18	16.2	487	15.4	23	14.7	6	18.2	0	0.0	767	14.4
51-55	178	11.0	14	6.3	17	15.3	361	11.4	21	13.5	3	9.1	1	10.0	595	11.2
56-60	94	5.8	16	7.2	7	6.3	303	9.6	26	16.7	2	6.1	0	0.0	448	8.4
61-65	64	3.9	10	4.5	6	5.4	180	5.7	9	5.8	1	3.0	2	20.0	272	5.1
66-70	40	2.5	3	1.4	4	3.6	56	1.8	4	2.6	2	6.1	0	0.0	109	2.1
71-75	9	0.6	3	1.4	2	1.8	25	0.8	0	0.0	0	0.0	0	0.0	39	0.7
> 75	10	0.6	3	1.4	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	18	0.3
Unknown	31	1.9	9	4.1	2	1.8	41	1.3	1	0.6	3	9.1	3	30.0	90	1.7
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

**Table 4-4
Fatal Truck Involvements by Driver Sex and Truck Configuration
TIFA 2004**

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	1550	95.6	204	92.3	106	95.5	3039	96.2	152	97.4	29	87.9	7	70.0	5087	95.7
Female	42	2.6	8	3.6	3	2.7	83	2.6	3	1.9	1	3.0	0	0.0	140	2.6
Unknown	30	1.8	9	4.1	2	1.8	38	1.2	1	0.6	3	9.1	3	30.0	86	1.6
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

**Table 4-5
Fatal Truck Involvements by Driver Restraint Use and Truck Configuration
TIFA 2004**

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	328	20.2	40	18.1	23	20.7	363	11.5	13	8.3	5	15.2	0	0.0	772	14.5
Shoulder belt	7	0.4	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	12	0.2
Lap belt	75	4.6	8	3.6	5	4.5	115	3.6	3	1.9	2	6.1	0	0.0	208	3.9
Lap and shoulder	1044	64.4	147	66.5	70	63.1	2383	75.4	125	80.1	22	66.7	6	60.0	3797	71.5
Motorcycle helmet	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Used, type unk	14	0.9	3	1.4	0	0.0	13	0.4	2	1.3	0	0.0	0	0.0	32	0.6
Belt use improper	0	0.0	0	0.0	0	0.0	1	0.0	1	0.6	0	0.0	0	0.0	2	0.0
Unknown	153	9.4	23	10.4	13	11.7	280	8.9	12	7.7	4	12.1	4	40.0	489	9.2
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

**Table 4-6
Fatal Truck Involvements by Driver Injury Severity and Truck Configuration
TIFA 2004**

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	14.5	22	10.0	13	11.7	404	12.8	21	13.5	5	15.2	0	0.0	700	13.2
Incapacitating (A)	108	6.7	13	5.9	7	6.3	121	3.8	8	5.1	1	3.0	0	0.0	258	4.9
Non-incapacitating (B)	227	14.0	22	10.0	12	10.8	293	9.3	13	8.3	0	0.0	0	0.0	567	10.7
Complaint of pain (C)	192	11.8	27	12.2	18	16.2	333	10.5	11	7.1	4	12.1	1	10.0	586	11.0
No injury (O)	827	51.0	127	57.5	59	53.2	1980	62.7	102	65.4	20	60.6	8	80.0	3123	58.8
Died prior to accident	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	32	2.0	10	4.5	2	1.8	29	0.9	1	0.6	3	9.1	1	10.0	78	1.5
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 4-7
Fatal Truck Involvements by Driver Injury Severity and Rollover, Fire, Ejection Status
TIFA 2004

Rollover, fire ejection	Fatal injury (K)		Incapaci- tating (A)		Non-incapa- citating (B)		Complaint of pain (C)		No injury (O)		Died prior to accident		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Rollover only	195	27.9	50	19.4	108	19.0	58	9.9	84	2.7	0	0.0	0	0	495	9.3
Fire only	66	9.4	13	5.0	26	4.6	32	5.5	77	2.5	0	0.0	0	0	214	4.0
Ejection only	54	7.7	6	2.3	2	0.4	0	0.0	0	0.0	0	0.0	1	1.3	63	1.2
Rollover and fire	40	5.7	4	1.6	10	1.8	2	0.3	1	0.0	1	100.0	0	0	58	1.1
Rollover & ejection	113	16.1	13	5.0	3	0.5	0	0.0	0	0.0	0	0.0	0	0	129	2.4
Fire and ejection	8	1.1	2	0.8	1	0.2	0	0.0	0	0.0	0	0.0	0	0	11	0.2
Rollover, fire, & eject	9	1.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0	9	0.2
None	210	30.0	169	65.5	417	73.5	494	84.3	2960	94.8	0	0.0	11	14.1	4261	80.2
Unknown	5	0.7	1	0.4	0	0.0	0	0.0	1	0.0	0	0.0	66	84.6	73	1.4
Total	700	100.0	258	100.0	567	100.0	586	100.0	3123	100.0	1	100.0	78	100	5313	100.0

Table 4-8
Fatal Truck Involvements by Driver Extrication and Truck Configuration
TIFA 2004

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	1509	93.0	201	91.0	102	91.9	2974	94.1	146	93.6	28	84.8	10	100.0	4970	93.5
Extricated	80	4.9	9	4.1	6	5.4	149	4.7	10	6.4	1	3.0	0	0.0	255	4.8
Unknown	33	2.0	11	5.0	3	2.7	37	1.2	0	0.0	4	12.1	0	0.0	88	1.7
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 4-9
Fatal Truck Involvements by Reported Hours Driven and Truck Configuration
TIFA 2004

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	320	19.7	53	24.0	28	25.2	432	13.7	21	13.5	6	18.2	2	20.0	862	16.2
2 hrs	158	9.7	27	12.2	12	10.8	301	9.5	17	10.9	1	3.0	0	0.0	516	9.7
3-4 hrs	193	11.9	20	9.0	8	7.2	450	14.2	26	16.7	4	12.1	0	0.0	701	13.2
5-6 hrs	138	8.5	20	9.0	5	4.5	323	10.2	27	17.3	0	0.0	0	0.0	513	9.7
7-8 hrs	80	4.9	6	2.7	2	1.8	192	6.1	11	7.1	2	6.1	1	10.0	294	5.5
9-10 hrs	24	1.5	4	1.8	2	1.8	65	2.1	8	5.1	0	0.0	0	0.0	103	1.9
11-12 hrs	3	0.2	0	0.0	0	0.0	23	0.7	1	0.6	0	0.0	0	0.0	27	0.5
13-18 hrs	1	0.1	0	0.0	0	0.0	10	0.3	0	0.0	0	0.0	0	0.0	11	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	113	7.0	21	9.5	10	9.0	349	11.0	14	9.0	2	6.1	0	0.0	509	9.6
Unk, not legal	4	0.2	0	0.0	0	0.0	18	0.6	1	0.6	0	0.0	0	0.0	23	0.4
Unknown/NA	588	36.3	70	31.7	44	39.6	996	31.5	30	19.2	18	54.5	7	70.0	1753	33.0
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 4-10
Fatal Truck Involvements by Number of Previous Accidents and Truck Configuration
TIFA 2004

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	1217	75.0	167	75.6	84	75.7	2345	74.2	121	77.6	27	81.8	6	60.0	3967	74.7
1	213	13.1	32	14.5	13	11.7	393	12.4	22	14.1	2	6.1	1	10.0	676	12.7
2	28	1.7	2	0.9	5	4.5	66	2.1	4	2.6	0	0.0	0	0.0	105	2.0
3	12	0.7	1	0.5	0	0.0	12	0.4	3	1.9	0	0.0	0	0.0	28	0.5
4	1	0.1	0	0.0	0	0.0	4	0.1	1	0.6	0	0.0	0	0.0	6	0.1
5	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Not reported	101	6.2	9	4.1	6	5.4	192	6.1	2	1.3	1	3.0	0	0.0	311	5.9
Unknown	49	3.0	10	4.5	3	2.7	148	4.7	3	1.9	3	9.1	3	30.0	219	4.1
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 4-11
Fatal Truck Involvements by Number of Previous Suspensions and Truck Configuration
TIFA 2004

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	1426	87.9	199	90.0	101	91.0	2800	88.6	147	94.2	25	75.8	6	60.0	4704	88.5
1	83	5.1	10	4.5	7	6.3	144	4.6	4	2.6	3	9.1	0	0.0	251	4.7
2	44	2.7	1	0.5	0	0.0	34	1.1	2	1.3	2	6.1	1	10.0	84	1.6
3	9	0.6	0	0.0	0	0.0	20	0.6	0	0.0	0	0.0	0	0.0	29	0.5
4	4	0.2	0	0.0	0	0.0	7	0.2	0	0.0	0	0.0	0	0.0	11	0.2
5	5	0.3	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	6	0.1
6	1	0.1	1	0.5	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	4	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
9	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
19	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	49	3.0	10	4.5	3	2.7	148	4.7	3	1.9	3	9.1	3	30.0	219	4.1
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 4-12
Fatal Truck Involvements by Number of Previous Speeding Convictions and Truck Configuration
TIFA 2004

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	1267	78.1	165	74.7	85	76.6	2145	67.9	115	73.7	23	69.7	6	60.0	3806	71.6
1	232	14.3	32	14.5	16	14.4	575	18.2	33	21.2	6	18.2	0	0.0	894	16.8
2	53	3.3	7	3.2	5	4.5	202	6.4	4	2.6	1	3.0	1	10.0	273	5.1
3	13	0.8	4	1.8	2	1.8	59	1.9	1	0.6	0	0.0	0	0.0	79	1.5
4	5	0.3	1	0.5	0	0.0	22	0.7	0	0.0	0	0.0	0	0.0	28	0.5
5	2	0.1	2	0.9	0	0.0	7	0.2	0	0.0	0	0.0	0	0.0	11	0.2
6	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	49	3.0	10	4.5	3	2.7	148	4.7	3	1.9	3	9.1	3	30.0	219	4.1
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 4-13
Fatal Truck Involvements by Previous Other Moving Convictions and Truck Configuration
TIFA 2004

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	1255	77.4	172	77.8	79	71.2	2153	68.1	109	69.9	22	66.7	5	50.0	3795	71.4
1	224	13.8	29	13.1	20	18.0	550	17.4	32	20.5	6	18.2	1	10.0	862	16.2
2	56	3.5	6	2.7	5	4.5	198	6.3	8	5.1	1	3.0	0	0.0	274	5.2
3	23	1.4	2	0.9	1	0.9	66	2.1	4	2.6	0	0.0	1	10.0	97	1.8
4	10	0.6	2	0.9	1	0.9	23	0.7	0	0.0	1	3.0	0	0.0	37	0.7
5	3	0.2	0	0.0	2	1.8	13	0.4	0	0.0	0	0.0	0	0.0	18	0.3
6	1	0.1	0	0.0	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	9	0.2
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
Unknown	49	3.0	10	4.5	3	2.7	148	4.7	3	1.9	3	9.1	3	30.0	219	4.1
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 4-14
Fatal Truck Involvements by License Class Compliance and Truck Configuration
TIFA 2004

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	15	0.9	0	0.0	0	0.0	4	0.1	0	0.0	1	3.0	0	0.0	20	0.4
Not valid	74	4.6	10	4.5	4	3.6	66	2.1	4	2.6	1	3.0	1	10.0	160	3.0
Valid	1470	90.6	200	90.5	104	93.7	2935	92.9	149	95.5	28	84.8	6	60.0	4892	92.1
Unk if CDL req.	16	1.0	1	0.5	0	0.0	19	0.6	0	0.0	0	0.0	0	0.0	36	0.7
Unknown	47	2.9	10	4.5	3	2.7	136	4.3	3	1.9	3	9.1	3	30.0	205	3.9
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 4-15
Fatal Truck Involvements by CDL License Status and Truck Configuration
TIFA 2004

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	609	37.5	95	43.0	2	1.8	34	1.1	1	0.6	10	30.3	0	0.0	751	14.1
Suspended	12	0.7	1	0.5	1	0.9	35	1.1	0	0.0	2	6.1	0	0.0	51	1.0
Revoked	1	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Expired	5	0.3	1	0.5	0	0.0	12	0.4	2	1.3	0	0.0	0	0.0	20	0.4
Cancelled/denied	3	0.2	1	0.5	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	5	0.1
Disqualified	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Valid	931	57.4	111	50.2	104	93.7	2931	92.8	149	95.5	17	51.5	6	60.0	4249	80.0
Learner's permit	5	0.3	1	0.5	0	0.0	1	0.0	0	0.0	1	3.0	0	0.0	8	0.2
Other-not valid	9	0.6	1	0.5	1	0.9	11	0.3	1	0.6	0	0.0	0	0.0	23	0.4
Unknown	46	2.8	10	4.5	3	2.7	132	4.2	3	1.9	3	9.1	4	40.0	201	3.8
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

Table 4-16
Fatal Truck Involvements by License Endorsements and Truck Configuration
TIFA 2004

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	1248	76.9	170	76.9	74	66.7	1741	55.1	18	11.5	23	69.7	2	20.0	3276	61.7
Complied	164	10.1	23	10.4	16	14.4	669	21.2	113	72.4	5	15.2	3	30.0	993	18.7
Not complied	16	1.0	3	1.4	2	1.8	47	1.5	6	3.8	0	0.0	0	0.0	74	1.4
Compliance unk	97	6.0	14	6.3	11	9.9	390	12.3	14	9.0	2	6.1	0	0.0	528	9.9
Unknown	97	6.0	11	5.0	8	7.2	313	9.9	5	3.2	3	9.1	5	50.0	442	8.3
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	100.0

**Table 4-17
Fatal Truck Involvements by Driver-Related Factors and Truck Configuration
TIFA 2004**

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	916	56.5	139	62.9	63	56.8	1939	61.4	93	59.6	17	51.5	5	50.0	3172	59.7
<i>Physical/mental conditions</i>																
Drowsy, asleep	26	1.6	3	1.4	0	0.0	45	1.4	5	3.2	0	0.0	0	0.0	79	1.5
Ill, passed out, blackout	4	0.2	0	0.0	0	0.0	15	0.5	0	0.0	0	0.0	0	0.0	19	0.4
Emotional distress	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Drugs, medication	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 drugs	41	2.5	3	1.4	3	2.7	29	0.9	1	0.6	0	0.0	0	0.0	77	1.4
Inattentive	87	5.4	7	3.2	5	4.5	152	4.8	9	5.8	2	6.1	1	10.0	263	5.0
Road rage/aggressive	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	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Seatback not upright	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
<i>Miscellaneous causes</i>																
Prohibited trafficway	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
No license	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Vehicle unattended	23	1.4	4	1.8	2	1.8	17	0.5	0	0.0	0	0.0	0	0.0	46	0.9
Improper loading	10	0.6	4	1.8	0	0.0	8	0.3	0	0.0	3	9.1	1	10.0	26	0.5
Improper towing	0	0.0	3	1.4	0	0.0	0	0.0	1	0.6	0	0.0	0	0.0	4	0.1
Improper lighting	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
W/O req equipment	21	1.3	1	0.5	1	0.9	21	0.7	2	1.3	0	0.0	0	0.0	46	0.9
Improper tailing	21	1.3	1	0.5	0	0.0	67	2.1	3	1.9	1	3.0	0	0.0	93	1.8
Improper lane change	8	0.5	2	0.9	2	1.8	24	0.8	1	0.6	0	0.0	0	0.0	37	0.7
Failure to stay in lane	217	13.4	24	10.9	21	18.9	292	9.2	15	9.6	3	9.1	1	10.0	573	10.8
Driving on shoulder	1	0.1	1	0.5	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	6	0.1
Improper entry/exit	4	0.2	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	6	0.1
Improper start/back	11	0.7	2	0.9	0	0.0	14	0.4	0	0.0	0	0.0	0	0.0	27	0.5
Prohibited passing	1	0.1	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Passing on wrong side	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Passing-insufficient dist	5	0.3	0	0.0	0	0.0	15	0.5	2	1.3	0	0.0	0	0.0	22	0.4
Erratic/reckless	65	4.0	4	1.8	3	2.7	85	2.7	2	1.3	1	3.0	0	0.0	160	3.0
High speed chase	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Failure to yield	89	5.5	8	3.6	5	4.5	135	4.3	5	3.2	1	3.0	0	0.0	243	4.6
Failure to obey signs	48	3.0	5	2.3	2	1.8	83	2.6	2	1.3	1	3.0	0	0.0	141	2.7
Passing around barrier	2	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Fail to observe warning	0	0.0	0	0.0	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	6	0.1
Failure to signal	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Driving too fast	108	6.7	20	9.0	11	9.9	270	8.5	15	9.6	2	6.1	1	10.0	427	8.0
Under minimum speed	2	0.1	1	0.5	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	6	0.1
Wrong lane turn	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 improper turn	17	1.0	4	1.8	3	2.7	36	1.1	4	2.6	1	3.0	1	10.0	66	1.2
Wrong way	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Wrong side of road	16	1.0	1	0.5	1	0.9	8	0.3	1	0.6	0	0.0	0	0.0	27	0.5
Operator inexperience	2	0.1	0	0.0	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	8	0.2
Unfamiliar w/roadway	2	0.1	0	0.0	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	8	0.2
Stopped in roadway	13	0.8	5	2.3	1	0.9	31	1.0	1	0.6	1	3.0	0	0.0	52	1.0
Underride parked truck	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Locked wheel	1	0.1	0	0.0	1	0.9	6	0.2	2	1.3	0	0.0	0	0.0	10	0.2
Over correcting	36	2.2	1	0.5	3	2.7	31	1.0	2	1.3	0	0.0	0	0.0	73	1.4
On/Off moving vehicle	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0

(continued on next page)

Table 4-17 (continued)

Driver-related factors	Strt truck		Strt/1trailer		Bobtail		Trac/1semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<i>Vision obscured by</i>																
Inclement weather	11	0.7	4	1.8	1	0.9	82	2.6	4	2.6	0	0.0	0	0.0	102	1.9
Glare	5	0.3	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	6	0.1
Curve, hill, etc.	6	0.4	1	0.5	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	12	0.2
Building, billboard	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Trees, crops, vegetation	3	0.2	0	0.0	0	0.0	1	0.0	1	0.6	0	0.0	0	0.0	5	0.1
Motor vehicle	3	0.2	1	0.5	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	10	0.2
Parked vehicle	1	0.1	1	0.5	2	1.8	5	0.2	0	0.0	0	0.0	0	0.0	9	0.2
Inadequate lighting system	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Obstructing angles	2	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Restriction noncompliance	7	0.4	3	1.4	2	1.8	9	0.3	0	0.0	1	3.0	0	0.0	22	0.4
Broken/dirty windshield	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Other obstruction	2	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
<i>Avoiding, swerving due to</i>																
Severe crosswind	0	0.0	0	0.0	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	6	0.1
Slippery surface	2	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Tire blowout or flat	16	1.0	1	0.5	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	22	0.4
Debris in road	0	0.0	1	0.5	0	0.0	12	0.4	2	1.3	0	0.0	0	0.0	15	0.3
Live animal in road	0	0.0	0	0.0	1	0.9	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Vehicle in road	14	0.9	1	0.5	4	3.6	36	1.1	4	2.6	0	0.0	0	0.0	59	1.1
Phantom vehicle	2	0.1	0	0.0	2	1.8	3	0.1	0	0.0	0	0.0	0	0.0	7	0.1
Pedestrian in road	3	0.2	0	0.0	1	0.9	8	0.3	0	0.0	1	3.0	0	0.0	13	0.2
Ice, water, snow on road	26	1.6	4	1.8	1	0.9	75	2.4	3	1.9	0	0.0	0	0.0	109	2.1
Trailer fishtailing	0	0.0	1	0.5	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	7	0.1
<i>Other misc. factors</i>																
Multi-state record/license	2	0.1	1	0.5	0	0.0	21	0.7	0	0.0	0	0.0	0	0.0	24	0.5
Hit and run driver	11	0.7	1	0.5	0	0.0	23	0.7	3	1.9	0	0.0	2	20.0	40	0.8
Homocide	23	1.4	3	1.4	0	0.0	36	1.1	1	0.6	1	3.0	0	0.0	64	1.2
Other nonmoving viol.	37	2.3	6	2.7	3	2.7	43	1.4	2	1.3	3	9.1	1	10.0	95	1.8
<i>Possible distractions</i>																
Cellular phone present	31	1.9	2	0.9	3	2.7	94	3.0	8	5.1	1	3.0	0	0.0	139	2.6
Cellular phone in use	2	0.1	1	0.5	0	0.0	7	0.2	0	0.0	0	0.0	0	0.0	10	0.2
Two-way radio	1	0.1	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Head-up display	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	27	1.7	2	0.9	0	0.0	23	0.7	0	0.0	0	0.0	1	10.0	53	1.0
Total	1622	100.0	221	100.0	111	100.0	3160	100.0	156	100.0	33	100.0	10	100.0	5313	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 2004. All truck configurations in which the power unit was a straight truck are included in this section. A straight truck is a truck power unit with a permanently attached cargo body. Straight truck configurations include trucks pulling no trailers, trucks pulling a full or other trailer, and wreckers towing cars or other straight trucks.

- Truck configurations with a straight-truck power unit accounted for 35.1% of all trucks involved in a fatal traffic accident in 2004.
- 35.6% of straight trucks were Class 8 (over 33,000 lbs.) Gross Vehicle Weight Rating (GVWR), and 23.4% were Class 3 (10,001-14,000 lbs.).
- The lightest straight truck involved in a fatal accident in 2004 weighed 5,000 pounds or less; the heaviest straight truck combination weighed over 100,000 pounds.
- 37.4% of straight trucks were empty at the time of the accident; while solids in bulk was the most frequent cargo type, accounting for 18.2%.
- 56.5% of straight truck configurations involved in a fatal traffic accident had two axles, 21.8% had three axles (including the trailer), and one straight truck combination had five axles on the power unit and four axles on the trailer.
- 37.9% of straight trucks were operated by a private, intrastate carrier; 24.2% by a private, interstate carrier; and only 9.5% by a for-hire, interstate carrier.
- 63.6% of straight trucks were on a local trip (within 50 miles of base) at the time of the accident.
- 259 straight truck drivers were fatally injured in a traffic accident; 20.5% of the fatalities occurred when the vehicle hit an object in the road, 18.1 occurred in ran-off-road crashes, and 17.4% were the result of an untripped rollover.

Note: 553 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 2004

Configuration	No.	Pct.
<i>Straight truck only</i>	1622	86.9
<i>Straight truck, 1 trailer</i>		
Straight + full trailer	41	2.2
Straight + other	138	7.4
Straight + other, gooseneck hitch	42	2.3
<i>Subtotal</i>	221	11.8
<i>Other straight combinations</i>		
Wrecker + tow	11	0.6
Straight, unknown if pulling trailer	11	0.6
Straight, other trailer w/gooseneck + other trailer	1	0.1
<i>Subtotal</i>	23	1.2
Total straight trucks	1866	100.0

Table 5-2
Fatal Truck Involvements by Cargo Body Style – Straight Trucks
TIFA 2004

Cargo body style	No.	Pct.
Van	352	18.9
Open top van	2	0.1
Refrigerated van	59	3.2
Livestock	1	0.1
Flatbed	124	6.7
Flatbed with equipment	32	1.7
Flatbed with sides	62	3.3
Pole/logging	19	1.0
Tank:liquid/gas	100	5.4
Tank:dry	1	0.1
Auto carrier	13	0.7
Dump	397	21.3
Hopper bottom	4	0.2
Garbage/refuse	130	7.0
Other	553	29.6
Unknown	17	0.9
Total	1866	100.0

Table 5-3
Fatal Truck Involvements by Gross Vehicle Weight Rating and Cargo Body Style – Straight Trucks
TIFA 2004

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	84	20.3	66	30.3	3	3.0	12	3.0	0	0.0	0	0.0	266	46.9	6	35.3	437	23.4
Class 4: 14,001-16,000	48	11.6	28	12.8	3	3.0	11	2.7	1	0.8	1	5.3	49	8.6	2	11.8	143	7.7
Class 5: 16,001-19,500	23	5.6	12	5.5	3	3.0	7	1.7	0	0.0	0	0.0	35	6.2	0	0.0	80	4.3
Class 6: 19,501-26,000	156	37.8	33	15.1	7	6.9	13	3.2	2	1.5	2	10.5	61	10.8	3	17.6	277	14.8
Class 7: 26,001-33,000	80	19.4	30	13.8	31	30.7	34	8.5	4	3.1	0	0.0	37	6.5	2	11.8	218	11.7
Class 8: 33,001 or more	16	3.9	34	15.6	49	48.5	312	77.8	123	94.6	13	68.4	114	20.1	4	23.5	665	35.6
Unknown	6	1.5	15	6.9	5	5.0	12	3.0	0	0.0	3	15.8	5	0.9	0	0.0	46	2.5
Total	413	100.0	218	100.0	101	100.0	401	100.0	130	100.0	19	100.0	567	100.0	17	100.0	1866	100.0

* Note: The Other category includes 13 auto carriers and one livestock carrier.
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 2004

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	2	0.4	0	0.0	2	0.1
5,001-10,000	52	12.6	58	26.6	2	2.0	15	3.7	0	0.0	3	15.8	169	29.8	4	23.5	303	16.2
10,001-15,000	130	31.5	49	22.5	7	6.9	25	6.2	2	1.5	1	5.3	102	18.0	1	5.9	317	17.0
15,001-20,000	57	13.8	24	11.0	10	9.9	19	4.7	4	3.1	1	5.3	46	8.1	0	0.0	161	8.6
20,001-25,000	33	8.0	15	6.9	10	9.9	60	15.0	5	3.8	1	5.3	27	4.8	0	0.0	151	8.1
25,001-30,000	13	3.1	6	2.8	12	11.9	65	16.2	19	14.6	1	5.3	18	3.2	0	0.0	134	7.2
30,001-35,000	8	1.9	3	1.4	4	4.0	14	3.5	18	13.8	3	15.8	11	1.9	0	0.0	61	3.3
35,001-40,000	2	0.5	4	1.8	6	5.9	11	2.7	10	7.7	0	0.0	10	1.8	0	0.0	43	2.3
40,001-45,000	1	0.2	1	0.5	1	1.0	6	1.5	11	8.5	3	15.8	3	0.5	0	0.0	26	1.4
45,001-50,000	0	0.0	3	1.4	0	0.0	14	3.5	9	6.9	1	5.3	4	0.7	0	0.0	31	1.7
50,001-55,000	1	0.2	2	0.9	5	5.0	20	5.0	6	4.6	0	0.0	5	0.9	0	0.0	39	2.1
55,001-60,000	0	0.0	2	0.9	1	1.0	8	2.0	5	3.8	0	0.0	8	1.4	0	0.0	24	1.3
60,001-65,000	0	0.0	1	0.5	2	2.0	10	2.5	3	2.3	0	0.0	6	1.1	0	0.0	22	1.2
65,001-70,000	0	0.0	0	0.0	0	0.0	19	4.7	4	3.1	0	0.0	11	1.9	0	0.0	34	1.8
70,001-75,000	0	0.0	0	0.0	2	2.0	15	3.7	1	0.8	0	0.0	4	0.7	0	0.0	22	1.2
75,001-80,000	0	0.0	1	0.5	3	3.0	19	4.7	0	0.0	2	10.5	7	1.2	0	0.0	32	1.7
80,001-85,000	0	0.0	0	0.0	2	2.0	3	0.7	0	0.0	2	10.5	0	0.0	0	0.0	7	0.4
85,001-90,000	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
90,001-95,000	0	0.0	0	0.0	1	1.0	3	0.7	0	0.0	0	0.0	0	0.0	0	0.0	4	0.2
95,001-100,000	0	0.0	0	0.0	1	1.0	1	0.2	0	0.0	1	5.3	0	0.0	0	0.0	3	0.2
100,001-110,000	0	0.0	0	0.0	1	1.0	3	0.7	0	0.0	0	0.0	0	0.0	0	0.0	4	0.2
Unknown	116	28.1	49	22.5	31	30.7	70	17.5	33	25.4	0	0.0	134	23.6	12	70.6	445	23.8
Total	413	100.0	218	100.0	101	100.0	401	100.0	130	100.0	19	100.0	567	100.0	17	100.0	1866	100.0

* Note: The Other category includes 13 auto carriers and one livestock carrier.

**Table 5-5
Fatal Truck Involvements by Cargo Type and Cargo Body Style – Straight Trucks
TIFA 2004**

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	79	22.4	0	0.0	11	18.6	0	0.0	64	51.6	18	56.3	21	33.9	9	47.4	21	21.0
General freight	147	41.8	0	0.0	3	5.1	0	0.0	5	4.0	1	3.1	7	11.3	0	0.0	0	0.0
Household goods	26	7.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Building materials	7	2.0	0	0.0	0	0.0	0	0.0	5	4.0	3	9.4	3	4.8	0	0.0	0	0.0
Metal (coils, sheets)	2	0.6	0	0.0	0	0.0	0	0.0	4	3.2	0	0.0	0	0.0	0	0.0	0	0.0
Heavy machinery	2	0.6	0	0.0	0	0.0	0	0.0	2	1.6	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	4	3.2	2	6.3	1	1.6	0	0.0	0	0.0
Motor vehicles	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
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	5	5.0
Solids in bulk	12	3.4	1	50.0	2	3.4	0	0.0	1	0.8	2	6.3	6	9.7	0	0.0	0	0.0
Liquids in bulk	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	3.1	0	0.0	0	0.0	70	70.0
Logs/poles/lumber	0	0.0	0	0.0	0	0.0	0	0.0	9	7.3	0	0.0	0	0.0	10	52.6	0	0.0
Refrigerated foods	3	0.9	0	0.0	37	62.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Farm products	6	1.7	1	50.0	1	1.7	0	0.0	4	3.2	0	0.0	4	6.5	0	0.0	0	0.0
Live animals	0	0.0	0	0.0	1	1.7	1	100.0	1	0.8	0	0.0	0	0.0	0	0.0	0	0.0
Other	25	7.1	0	0.0	1	1.7	0	0.0	19	15.3	4	12.5	16	25.8	0	0.0	1	1.0
Cargo, unk. type	3	0.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	3.2	0	0.0	0	0.0
Unknown	38	10.8	0	0.0	3	5.1	0	0.0	6	4.8	1	3.1	2	3.2	0	0.0	3	3.0
Total	352	100.0	2	100.0	59	100.0	1	100.0	124	100.0	32	100.0	62	100.0	19	100.0	100	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	3	23.1	174	43.8	1	25.0	43	33.1	251	45.4	2	11.8	698	37.4
General freight	0	0.0	0	0.0	2	0.5	0	0.0	0	0.0	3	0.5	0	0.0	168	9.0
Household goods	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	26	1.4
Building materials	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	18	1.0
Metal (coils, sheets)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0	7	0.4
Heavy machinery	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0	3	0.5	0	0.0	8	0.4
Large objects	0	0.0	0	0.0	2	0.5	0	0.0	0	0.0	6	1.1	0	0.0	16	0.9
Motor vehicles	0	0.0	10	76.9	0	0.0	0	0.0	0	0.0	23	4.2	0	0.0	34	1.8
Piggyback/towaway	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	1.3	0	0.0	7	0.4
Gases in bulk	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	0.3
Solids in bulk	0	0.0	0	0.0	189	47.6	3	75.0	78	60.0	45	8.1	0	0.0	339	18.2
Liquids in bulk	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.4	0	0.0	73	3.9
Logs/poles/lumber	0	0.0	0	0.0	2	0.5	0	0.0	0	0.0	1	0.2	0	0.0	22	1.2
Refrigerated foods	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	40	2.1
Farm products	0	0.0	0	0.0	3	0.8	0	0.0	0	0.0	1	0.2	0	0.0	20	1.1
Live animals	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0	4	0.2
Other	0	0.0	0	0.0	7	1.8	0	0.0	0	0.0	147	26.6	2	11.8	222	11.9
Cargo, unk. type	0	0.0	0	0.0	2	0.5	0	0.0	0	0.0	1	0.2	0	0.0	8	0.4
Unknown	0	0.0	0	0.0	15	3.8	0	0.0	9	6.9	61	11.0	13	76.5	151	8.1
Total	1	100.0	13	100.0	397	100.0	4	100.0	130	100.0	553	100.0	17	100.0	1866	100.0

Table 5-6
Fatal Truck Involvements by Axle Combinations – Straight Truck Configurations
TIFA 2004

Straight only Power unit axles*	Strt/ 1 trlr Trailer axles*	Total	
		No.	Pct.
2		1042	56.5
3		379	20.6
4		150	8.1
5		38	2.1
6		4	0.2
7		6	0.3
2	1	23	1.2
2	2	117	6.3
2	3	3	0.2
3	1	2	0.1
3	2	46	2.5
3	3	3	0.2
3	4	1	0.1
4	2	5	0.3
4	3	2	0.1
4	4	4	0.2
4	6	1	0.1
5	3	1	0.1
5	4	1	0.1
Unknown		15	0.8
Total		1843	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 23 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 2004

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	120	29.1	72	33.0	34	33.7	62	15.5	30	23.1	2	10.5	126	22.2	5	29.4	451	24.2
Interstate for-hire	64	15.5	7	3.2	7	6.9	41	10.2	7	5.4	1	5.3	48	8.5	2	11.8	177	9.5
Intrastate private	122	29.5	99	45.4	43	42.6	131	32.7	61	46.9	10	52.6	238	42.0	4	23.5	708	37.9
Intrastate for-hire	32	7.7	9	4.1	9	8.9	93	23.2	6	4.6	2	10.5	32	5.6	1	5.9	184	9.9
Government owned	4	1.0	8	3.7	3	3.0	34	8.5	16	12.3	0	0.0	15	2.6	1	5.9	81	4.3
Daily rental	39	9.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.4	0	0.0	41	2.2
Unknown	32	7.7	23	10.6	5	5.0	40	10.0	10	7.7	4	21.1	106	18.7	4	23.5	224	12.0
Total	413	100.0	218	100.0	101	100.0	401	100.0	130	100.0	19	100.0	567	100.0	17	100.0	1866	100.0

* Note: The Other category includes 13 auto carriers and one livestock carrier.

Table 5-8
Fatal Truck Involvements by Trip Type and Cargo Body Style – Straight Trucks
TIFA 2004

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	179	43.3	143	65.6	68	67.3	305	76.1	104	80.0	13	68.4	374	66.0	1	5.9	1187	63.6
51-100 miles	73	17.7	32	14.7	16	15.8	35	8.7	8	6.2	2	10.5	53	9.3	2	11.8	221	11.8
101-200	33	8.0	5	2.3	2	2.0	3	0.7	2	1.5	2	10.5	20	3.5	0	0.0	67	3.6
201-500	21	5.1	4	1.8	1	1.0	3	0.7	0	0.0	0	0.0	14	2.5	0	0.0	43	2.3
Over 500	13	3.1	2	0.9	1	1.0	0	0.0	0	0.0	0	0.0	15	2.6	1	5.9	32	1.7
Unk over-the-road dist	7	1.7	3	1.4	0	0.0	2	0.5	1	0.8	0	0.0	8	1.4	0	0.0	21	1.1
Unknown	87	21.1	29	13.3	13	12.9	53	13.2	15	11.5	2	10.5	83	14.6	13	76.5	295	15.8
Total	413	100.0	218	100.0	101	100.0	401	100.0	130	100.0	19	100.0	567	100.0	17	100.0	1866	100.0

* Note: The Other category includes 13 auto carriers and one livestock carrier.

Table 5-9
Fatal Truck Involvements by Route Signing and Cargo Body Style – Straight Trucks
TIFA 2004

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	77	18.6	27	12.4	9	8.9	36	9.0	7	5.4	4	21.1	86	15.2	2	11.8	248	13.3
US highway	70	16.9	39	17.9	15	14.9	78	19.5	18	13.8	4	21.1	134	23.6	3	17.6	361	19.3
State highway	150	36.3	80	36.7	33	32.7	163	40.6	36	27.7	9	47.4	159	28.0	7	41.2	637	34.1
County road	30	7.3	41	18.8	23	22.8	72	18.0	28	21.5	0	0.0	95	16.8	2	11.8	291	15.6
Township	14	3.4	5	2.3	4	4.0	11	2.7	7	5.4	1	5.3	11	1.9	0	0.0	53	2.8
Municipality	55	13.3	13	6.0	7	6.9	28	7.0	28	21.5	0	0.0	47	8.3	3	17.6	181	9.7
Frontage road	2	0.5	0	0.0	1	1.0	0	0.0	0	0.0	0	0.0	3	0.5	0	0.0	6	0.3
Other	13	3.1	13	6.0	8	7.9	11	2.7	4	3.1	1	5.3	29	5.1	0	0.0	79	4.2
Unknown	2	0.5	0	0.0	1	1.0	2	0.5	2	1.5	0	0.0	3	0.5	0	0.0	10	0.5
Total	413	100.0	218	100.0	101	100.0	401	100.0	130	100.0	19	100.0	567	100.0	17	100.0	1866	100.0

* Note: The Other category includes 13 auto carriers and one livestock carrier.

Table 5-10
Fatal Truck Involvements by Land Use and Cargo Body Style – Straight Trucks
TIFA 2004

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	199	48.2	69	31.7	31	30.7	138	34.4	64	49.2	5	26.3	225	39.7	10	58.8	741	39.7
Rural	211	51.1	149	68.3	69	68.3	261	65.1	63	48.5	14	73.7	339	59.8	7	41.2	1113	59.6
Unknown	3	0.7	0	0.0	1	1.0	2	0.5	3	2.3	0	0.0	3	0.5	0	0.0	12	0.6
Total	413	100.0	218	100.0	101	100.0	401	100.0	130	100.0	19	100.0	567	100.0	17	100.0	1866	100.0

* Note: The Other category includes 13 auto carriers and one livestock carrier.

Table 5-11
Fatal Truck Involvements by Light Condition and Cargo Body Style – Straight Trucks
TIFA 2004

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	298	72.2	168	77.1	79	78.2	337	84.0	102	78.5	14	73.7	393	69.3	12	70.6	1403	75.2
Dark	61	14.8	29	13.3	14	13.9	38	9.5	9	6.9	4	21.1	90	15.9	2	11.8	247	13.2
Dark but lighted	41	9.9	8	3.7	5	5.0	14	3.5	12	9.2	0	0.0	55	9.7	3	17.6	138	7.4
Dawn	9	2.2	7	3.2	2	2.0	9	2.2	6	4.6	1	5.3	12	2.1	0	0.0	46	2.5
Dusk	3	0.7	6	2.8	1	1.0	3	0.7	1	0.8	0	0.0	15	2.6	0	0.0	29	1.6
Unknown	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.4	0	0.0	3	0.2
Total	413	100.0	218	100.0	101	100.0	401	100.0	130	100.0	19	100.0	567	100.0	17	100.0	1866	100.0

* Note: The Other category includes 13 auto carriers and one livestock carrier.

Accident description

Table 5-12
Fatal Truck Involvements by Accident Type and Driver Injury Severity – Straight Trucks
TIFA 2004

Accident type	Fatal injury (K)		Incapacitating (A)		Non-incapacitating (B)		Complaint of pain (C)		No injury (O)		Died prior to accident		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<i>Single vehicle</i>																
Ran off road	47	18.1	0	0.0	3	1.2	0	0.0	2	0.2	0	0.0	0	0.0	52	2.8
Hit object in road	53	20.5	6	4.9	12	4.8	7	3.1	168	17.4	0	0.0	9	20.0	255	13.7
<i>Same direction, same trafficway</i>																
Rearend, truck striking	23	8.9	5	4.1	12	4.8	13	5.8	32	3.3	1	100.0	0	0.0	86	4.6
Rearend, truck struck	6	2.3	8	6.6	12	4.8	15	6.7	119	12.3	0	0.0	18	40.0	178	9.5
Sideswipe, in other's lane	1	0.4	1	0.8	0	0.0	1	0.4	3	0.3	0	0.0	0	0.0	6	0.3
Sideswipe, in truck's lane	1	0.4	0	0.0	0	0.0	2	0.9	15	1.6	0	0.0	1	2.2	19	1.0
<i>Opposite direction, same trafficway</i>																
Head-on, in other's lane	8	3.1	10	8.2	8	3.2	11	4.9	16	1.7	0	0.0	0	0.0	53	2.8
Head-on, in truck's lane	13	5.0	36	29.5	48	19.3	40	17.9	73	7.5	0	0.0	2	4.4	212	11.4
Sideswipe, in other's lane	14	5.4	3	2.5	12	4.8	6	2.7	10	1.0	0	0.0	1	2.2	46	2.5
Sideswipe, in truck's lane	6	2.3	10	8.2	30	12.0	31	13.9	94	9.7	0	0.0	0	0.0	171	9.2
<i>Change trafficway, one vehicle turning</i>																
Truck turn across path	2	0.8	0	0.0	4	1.6	7	3.1	60	6.2	0	0.0	0	0.0	73	3.9
Other turn across path	3	1.2	8	6.6	25	10.0	18	8.1	93	9.6	0	0.0	0	0.0	147	7.9
<i>Intersecting paths, both going straight</i>																
Truck into side of other	9	3.5	16	13.1	33	13.3	37	16.6	101	10.4	0	0.0	2	4.4	198	10.6
Other into side of truck	5	1.9	2	1.6	16	6.4	7	3.1	17	1.8	0	0.0	0	0.0	47	2.5
<i>Other accident types</i>																
Truck backed into other	0	0.0	0	0.0	0	0.0	2	0.9	6	0.6	0	0.0	0	0.0	8	0.4
Other backed into truck	1	0.4	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	2	0.1
Untripped roll	45	17.4	5	4.1	5	2.0	1	0.4	1	0.1	0	0.0	0	0.0	57	3.1
Other	20	7.7	10	8.2	23	9.2	22	9.9	145	15.0	0	0.0	12	26.7	232	12.4
Unknown	2	0.8	2	1.6	6	2.4	2	0.9	12	1.2	0	0.0	0	0.0	24	1.3
Total	259	100.0	122	100.0	249	100.0	223	100.0	967	100.0	1	100.0	45	100.0	1866	100.0

**Table 5-13
Fatal Truck Involvements by Manner of Collision and Cargo Body Style – Straight Trucks
TIFA 2004**

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	100	24.2	48	22.0	29	28.7	95	23.7	41	31.5	4	21.1	129	22.8	3	17.6	449	24.1
Rear-end	74	17.9	32	14.7	13	12.9	65	16.2	19	14.6	3	15.8	94	16.6	5	29.4	305	16.3
Head-on	71	17.2	38	17.4	14	13.9	80	20.0	19	14.6	5	26.3	105	18.5	0	0.0	332	17.8
Front-to-side:same dir	8	1.9	3	1.4	3	3.0	8	2.0	4	3.1	0	0.0	15	2.6	1	5.9	42	2.3
Front-to-side:opp dir	60	14.5	35	16.1	16	15.8	46	11.5	13	10.0	4	21.1	82	14.5	3	17.6	259	13.9
Front-to-side:right angle	74	17.9	42	19.3	22	21.8	85	21.2	27	20.8	2	10.5	111	19.6	4	23.5	367	19.7
Front-to-side:other	1	0.2	3	1.4	0	0.0	2	0.5	0	0.0	0	0.0	3	0.5	0	0.0	9	0.5
Sideswipe:same direction	11	2.7	5	2.3	1	1.0	3	0.7	2	1.5	0	0.0	6	1.1	1	5.9	29	1.6
Sideswipe:opp. direction	13	3.1	9	4.1	2	2.0	12	3.0	3	2.3	1	5.3	14	2.5	0	0.0	54	2.9
Rear-to-side	0	0.0	2	0.9	1	1.0	4	1.0	1	0.8	0	0.0	5	0.9	0	0.0	13	0.7
Other	0	0.0	1	0.5	0	0.0	1	0.2	1	0.8	0	0.0	2	0.4	0	0.0	5	0.3
Unknown	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0	2	0.1
Total	413	100.0	218	100.0	101	100.0	401	100.0	130	100.0	19	100.0	567	100.0	17	100.0	1866	100.0

* Note: The Other category includes 13 auto carriers and one livestock carrier.

**Table 5-14
Fatal Truck Involvements by Driver Injury Severity and Cargo Body Style – Straight Trucks
TIFA 2004**

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)	53	12.8	32	14.7	19	18.8	61	15.2	11	8.5	6	31.6	77	13.6	0	0.0	259	13.9
Incapacitating (A)	23	5.6	24	11.0	9	8.9	23	5.7	2	1.5	1	5.3	39	6.9	1	5.9	122	6.5
Non-incapacitating (B)	61	14.8	38	17.4	7	6.9	44	11.0	19	14.6	0	0.0	78	13.8	2	11.8	249	13.3
Complaint of pain (C)	60	14.5	26	11.9	12	11.9	36	9.0	23	17.7	0	0.0	63	11.1	3	17.6	223	12.0
No injury (O)	206	49.9	95	43.6	50	49.5	230	57.4	68	52.3	12	63.2	295	52.0	11	64.7	967	51.8
Died prior to accident	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
Unknown	10	2.4	3	1.4	4	4.0	7	1.7	7	5.4	0	0.0	14	2.5	0	0.0	45	2.4
Total	413	100.0	218	100.0	101	100.0	401	100.0	130	100.0	19	100.0	567	100.0	17	100.0	1866	100.0

* Note: The Other category includes 13 auto carriers and one livestock carrier.

**Table 5-15
Fatal Truck Involvements by Driver Injury Severity and Rollover, Fire, Ejection Status – Straight Trucks
TIFA 2004**

Fire, rollover, and ejection	Fatal injury (K)		Incapacitating (A)		Non-incapacitating (B)		Complaint of pain (C)		No. injury (O)		Died prior to accident		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Rollover only	64	24.7	25	20.5	49	19.7	30	13.5	24	2.5	0	0.0	0	0.0	192	10.3
Fire only	15	5.8	4	3.3	5	2.0	2	0.9	12	1.2	0	0.0	0	0.0	38	2.0
Ejection only	19	7.3	3	2.5	0	0.0	0	0.0	0	0.0	0	0.0	1	2.2	23	1.2
Rollover and fire	6	2.3	2	1.6	2	0.8	0	0.0	0	0.0	1	100.0	0	0.0	11	0.6
Rollover & ejection	56	21.6	9	7.4	3	1.2	0	0.0	0	0.0	0	0.0	0	0.0	68	3.6
Fire and ejection	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rollover, fire & eject	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
None	97	37.5	78	63.9	190	76.3	191	85.7	930	96.2	0	0.0	4	8.9	1490	79.8
Unknown	1	0.4	1	0.8	0	0.0	0	0.0	1	0.1	0	0.0	40	88.9	43	2.3
Total	259	100.0	122	100.0	249	100.0	223	100.0	967	100.0	1	100.0	45	100.0	1866	100.0

Tractors

This section provides descriptive statistics on tractor combinations involved in a fatal traffic accident in 2004. 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 3,437 of the 5,313 trucks (64.7%) involved in a fatal accident in 2004.
- 95.2% of the power units in tractor combinations were Class 8 (over 33,000 lbs.) Gross Vehicle Weight Rating (GVWR).
- The lightest tractor configurations weighed 15,000 pounds or less, and were bobtail tractors; the three heaviest tractor configurations were a tractor with one trailer, a tractor with two trailers, and one “other tractor combinations,” all with a loaded weight over 170,000 pounds.
- 71.0% of tractor combinations weighed between 25,001 and 80,000 pounds.
- 28.7% of tractor combinations were empty at the time of the accident; while the most common cargo was general freight with 24.3% of tractor involvements.
- 89.3% of tractor-semitrailer configurations consisted of a three-axle tractor pulling a two-axle trailer. 53.2% of doubles (two trailers) consisted of a two-axle tractor with a one-axle first trailer and a two-axle second trailer.
- 67.4% of tractor combinations were operated by for-hire, interstate carriers; 14.2% of tractors were operated by private, interstate carriers.
- 17.5% of tractor combinations were on a local trip (within 50 miles of base) at the time of the accident; 20.6% were on a trip over 500 miles.
- 441 tractor drivers were fatally injured in a traffic accident; 46.7% of the fatalities occurred single vehicle crashes; 26.5% involved hitting an object in the road, while 20.2% were ran-off-road crashes.

Configuration

Table 6-1
Fatal Truck Involvements by Tractor Configuration
TIFA 2004

Configuration	No.	Pct.
<i>Tractor, no trailers</i>		
Bobtail tractor	98	2.9
Tractor carrying cargo	13	0.4
<i>Subtotal</i>	111	3.2
<i>Tractor, 1 trailer</i>		
Tractor and semitrailer	3160	91.9
Tractor + other (nonsemitrailer)	5	0.1
<i>Subtotal</i>	3165	92.1
<i>Tractor, 2 trailers</i>		
Double with A dolly	81	2.4
Double, B train	2	0.1
Double, C dolly	4	0.1
Double with unknown dolly	7	0.2
Tractor + semitrailer + full trailer	58	1.7
Tractor + semitrailer + other	1	0.0
Tractor + semitrailer + unknown	3	0.1
<i>Subtotal</i>	156	4.5
<i>Tractor, 3 trailers</i>		
Triple with A dollies	0	0.0
<i>Subtotal</i>	0	0.0
<i>Other tractor combinations</i>		
Tractor + jeep + semi + jeep	1	0.0
Tractor + jeep + semi	2	0.1
Tractor + semi + jeep	1	0.0
Tractor + 2 saddlemount tractors	1	0.0
<i>Subtotal</i>	5	0.1
<i>Total tractors</i>	3437	100.0

**Table 6-2
Fatal Truck Involvements by Cargo Body Style and Truck Configuration – Tractor Combinations
TIFA 2004**

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	111	100.0	0	0.0	0	0.0	0	0.0	0	0.0	111	3.2
Van	0	0.0	1266	40.0	86	55.1	0	0.0	0	0.0	1352	39.3
Open top van	0	0.0	49	1.5	1	0.6	0	0.0	0	0.0	50	1.5
Refrigerated van	0	0.0	410	13.0	5	3.2	0	0.0	0	0.0	415	12.1
Livestock carrier	0	0.0	40	1.3	0	0.0	0	0.0	0	0.0	40	1.2
Flatbed	0	0.0	430	13.6	14	9.0	0	0.0	0	0.0	444	12.9
Lowboy	0	0.0	56	1.8	1	0.6	0	0.0	4	80.0	61	1.8
Flatbed with equip.	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	8	0.2
Flatbed with sides	0	0.0	32	1.0	1	0.6	0	0.0	0	0.0	33	1.0
Pole/logging	0	0.0	118	3.7	2	1.3	0	0.0	0	0.0	120	3.5
Tank:liquid/gaseous	0	0.0	242	7.6	7	4.5	0	0.0	0	0.0	249	7.2
Tank:dry bulk	0	0.0	54	1.7	8	5.1	0	0.0	0	0.0	62	1.8
Auto carrier	0	0.0	14	0.4	0	0.0	0	0.0	0	0.0	14	0.4
Dump	0	0.0	273	8.6	6	3.8	0	0.0	0	0.0	279	8.1
Hopper bottom	0	0.0	87	2.7	22	14.1	0	0.0	0	0.0	109	3.2
Refuse	0	0.0	9	0.3	0	0.0	0	0.0	0	0.0	9	0.3
Other	0	0.0	39	1.2	3	1.9	0	0.0	1	20.0	43	1.3
Unknown	0	0.0	38	1.2	0	0.0	0	0.0	0	0.0	38	1.1
Total	111	100.0	3165	100.0	156	100.0	0	0.0	5	100.0	3437	100.0

**Table 6-3
Fatal Truck Involvements by Cargo Type and Truck Configuration – Tractor Combinations
TIFA 2004**

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	98	88.3	858	27.1	29	18.6	0	0.0	0	0.0	985	28.7
General freight	0	0.0	764	24.1	71	45.5	0	0.0	0	0.0	835	24.3
Household goods	0	0.0	17	0.5	0	0.0	0	0.0	0	0.0	17	0.5
Building materials	0	0.0	42	1.3	0	0.0	0	0.0	0	0.0	42	1.2
Metal (coils, sheets)	0	0.0	111	3.5	1	0.6	0	0.0	0	0.0	112	3.3
Heavy machinery	0	0.0	66	2.1	1	0.6	0	0.0	2	40.0	69	2.0
Large objects	0	0.0	44	1.4	3	1.9	0	0.0	2	40.0	49	1.4
Motor vehicles	0	0.0	13	0.4	0	0.0	0	0.0	0	0.0	13	0.4
Piggyback/towaway	13	11.7	0	0.0	0	0.0	0	0.0	0	0.0	13	0.4
Gases in bulk	0	0.0	11	0.3	0	0.0	0	0.0	0	0.0	11	0.3
Solids in bulk	0	0.0	360	11.4	24	15.4	0	0.0	0	0.0	384	11.2
Liquids in bulk	0	0.0	133	4.2	5	3.2	0	0.0	0	0.0	138	4.0
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	127	4.0	3	1.9	0	0.0	0	0.0	130	3.8
Refrigerated foods	0	0.0	256	8.1	3	1.9	0	0.0	0	0.0	259	7.5
Mobile home	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Farm products	0	0.0	38	1.2	4	2.6	0	0.0	0	0.0	42	1.2
Live animals	0	0.0	31	1.0	0	0.0	0	0.0	0	0.0	31	0.9
Other	0	0.0	9	0.3	0	0.0	0	0.0	0	0.0	9	0.3
Cargo, unk. type	0	0.0	46	1.5	2	1.3	0	0.0	0	0.0	48	1.4
Saddlemount tractor	0	0.0	1	0.0	0	0.0	0	0.0	1	20.0	2	0.1
Unknown	0	0.0	233	7.4	10	6.4	0	0.0	0	0.0	243	7.1
Total	111	100.0	3165	100.0	156	100.0	0	0.0	5	100.0	3437	100.0

Table 6-4
Fatal Truck Involvements by Cargo Type and Cargo Body Style – Tractor Combinations
TIFA 2004

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	98	86.7	293	21.7	13	26.0	70	16.9	13	32.5	124	27.9	20	32.8	2	25.0	10	30.3	46	38.3
General freight	0	0.0	750	55.5	3	6.0	52	12.5	0	0.0	25	5.6	0	0.0	0	0.0	2	6.1	0	0.0
Household goods	0	0.0	16	1.2	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	11	0.8	0	0.0	0	0.0	0	0.0	27	6.1	0	0.0	2	25.0	2	6.1	0	0.0
Metal (coils, sheets)	0	0.0	14	1.0	0	0.0	1	0.2	0	0.0	84	18.9	1	1.6	0	0.0	10	30.3	0	0.0
Heavy machinery	0	0.0	9	0.7	0	0.0	0	0.0	0	0.0	36	8.1	24	39.3	0	0.0	0	0.0	0	0.0
Large objects	0	0.0	6	0.4	0	0.0	1	0.2	0	0.0	25	5.6	11	18.0	1	12.5	4	12.1	0	0.0
Motor vehicles	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	4	0.9	0	0.0	0	0.0	0	0.0	0	0.0
Piggyback/towaway	13	11.5	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	55	4.1	30	60.0	7	1.7	0	0.0	24	5.4	1	1.6	0	0.0	2	6.1	1	0.8
Liquids in bulk	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
Explosives	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Logs/poles/lumber	0	0.0	6	0.4	1	2.0	0	0.0	0	0.0	50	11.3	1	1.6	1	12.5	0	0.0	71	59.2
Refrigerated foods	0	0.0	3	0.2	0	0.0	255	61.4	1	2.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Mobile home	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Farm products	0	0.0	4	0.3	3	6.0	8	1.9	0	0.0	13	2.9	1	1.6	1	12.5	2	6.1	0	0.0
Live animals	0	0.0	0	0.0	0	0.0	0	0.0	26	65.0	2	0.5	0	0.0	1	12.5	1	3.0	0	0.0
Other	0	0.0	3	0.2	0	0.0	0	0.0	0	0.0	5	1.1	0	0.0	0	0.0	0	0.0	0	0.0
Cargo, unk. type	0	0.0	39	2.9	0	0.0	5	1.2	0	0.0	3	0.7	0	0.0	0	0.0	0	0.0	0	0.0
Saddlemount tractor	1	0.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Unknown	1	0.9	141	10.4	0	0.0	15	3.6	0	0.0	21	4.7	2	3.3	0	0.0	0	0.0	2	1.7
Total	113	100.0	1352	100.0	50	100.0	415	100.0	40	100.0	444	100.0	61	100.0	8	100.0	33	100.0	120	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	96	38.6	24	38.7	4	28.6	110	39.4	38	34.9	5	55.6	16	37.2	3	8.3	985	28.7
General freight	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.3	2	5.6	835	24.3
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	17	0.5
Building materials	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	42	1.2
Metal (coils, sheets)	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	1	2.8	112	3.3
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	69	2.0
Large objects	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.3	0	0.0	49	1.4
Motor vehicles	0	0.0	0	0.0	8	57.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	13	0.4
Piggyback/towaway	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	13	0.4
Gases in bulk	11	4.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	11	0.3
Solids in bulk	0	0.0	38	61.3	1	7.1	146	52.3	60	55.0	4	44.4	13	30.2	2	5.6	384	11.2
Liquids in bulk	137	55.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	138	4.0
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	130	3.8
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	259	7.5
Mobile home	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	9.3	0	0.0	4	0.1
Farm products	0	0.0	0	0.0	0	0.0	3	1.1	7	6.4	0	0.0	0	0.0	0	0.0	42	1.2
Live animals	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.3	0	0.0	31	0.9
Other	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.3	0	0.0	9	0.3
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	2.8	48	1.4
Saddlemount tractor	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.3	0	0.0	2	0.1
Unknown	5	2.0	0	0.0	1	7.1	19	6.8	4	3.7	0	0.0	5	11.6	27	75.0	243	7.1
Total	249	100.0	62	100.0	14	100.0	279	100.0	109	100.0	9	100.0	43	100.0	36	100.0	3437	100.0

**Table 6-5
Fatal Truck Involvements by Cargo Type and Cargo Body Style Groups – Tractor Combinations
TIFA 2004**

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	376	20.7	156	28.6	120	38.6	148	38.1	13	32.5	46	38.3	25	37.9	101	67.8	985	28.7
General freight	805	44.3	27	4.9	0	0.0	0	0.0	0	0.0	0	0.0	1	1.5	2	1.3	835	24.3
Household goods	17	0.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	17	0.5
Building materials	11	0.6	31	5.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	42	1.2
Metal (coils, sheets)	15	0.8	95	17.4	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	1	0.7	112	3.3
Heavy machinery	9	0.5	60	11.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	69	2.0
Large objects	7	0.4	41	7.5	0	0.0	0	0.0	0	0.0	0	0.0	1	1.5	0	0.0	49	1.4
Motor vehicles	1	0.1	4	0.7	0	0.0	0	0.0	0	0.0	0	0.0	8	12.1	0	0.0	13	0.4
Piggyback/towaway	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	13	8.7	13	0.4
Gases in bulk	0	0.0	0	0.0	11	3.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	11	0.3
Solids in bulk	92	5.1	27	4.9	38	12.2	206	53.1	0	0.0	1	0.8	18	27.3	2	1.3	384	11.2
Liquids in bulk	0	0.0	1	0.2	137	44.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	138	4.0
Explosives	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
Logs/poles/lumber	7	0.4	52	9.5	0	0.0	0	0.0	0	0.0	71	59.2	0	0.0	0	0.0	130	3.8
Refrigerated foods	258	14.2	0	0.0	0	0.0	0	0.0	1	2.5	0	0.0	0	0.0	0	0.0	259	7.5
Mobile home	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	6.1	0	0.0	4	0.1
Farm products	15	0.8	17	3.1	0	0.0	10	2.6	0	0.0	0	0.0	0	0.0	0	0.0	42	1.2
Live animals	0	0.0	4	0.7	0	0.0	0	0.0	26	65.0	0	0.0	1	1.5	0	0.0	31	0.9
Other	3	0.2	5	0.9	0	0.0	0	0.0	0	0.0	0	0.0	1	1.5	0	0.0	9	0.3
Cargo, unk. type	44	2.4	3	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.7	48	1.4
Saddlemount tractor	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.5	1	0.7	2	0.1
Unknown	156	8.6	23	4.2	5	1.6	23	5.9	0	0.0	2	1.7	6	9.1	28	18.8	243	7.1
Total	1817	100.0	546	100.0	311	100.0	388	100.0	40	100.0	120	100.0	66	100.0	149	100.0	3437	100.0

* Note: The Other category includes 14 auto carriers and nine refuse trucks.

**Table 6-6
Fatal Truck Involvements by Gross Vehicle Weight Rating and Truck Configuration – Tractor Combinations
TIFA 2004**

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 3: 10,001-14,000	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Class 6: 19,501-26,000	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.1
Class 7: 26,001-33,000	7	6.3	64	2.0	58	37.2	0	0.0	0	0.0	129	3.8
Class 8: 33,001+	102	91.9	3070	97.0	95	60.9	0	0.0	5	100.0	3272	95.2
Unknown	2	1.8	28	0.9	3	1.9	0	0.0	0	0.0	33	1.0
Total	111	100.0	3165	100.0	156	100.0	0	0.0	5	100.0	3437	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 2004

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 3: 10,000-14,000	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Class 6: 19,501-26,000	0	0.0	1	0.2	0	0.0	0	0.0	1	2.5	0	0.0	0	0.0	0	0.0	2	0.1
Class 7: 26,001-33,000	85	4.7	13	2.4	8	2.6	9	2.3	0	0.0	0	0.0	6	9.1	8	5.4	129	3.8
Class 8: 33,001+	1721	94.7	530	97.1	302	97.1	375	96.6	38	95.0	119	99.2	59	89.4	128	85.9	3272	95.2
Unknown	11	0.6	2	0.4	0	0.0	4	1.0	1	2.5	1	0.8	1	1.5	13	8.7	33	1.0
Total	1817	100.0	546	100.0	311	100.0	388	100.0	40	100.0	120	100.0	66	100.0	149	100.0	3437	100.0

* Note: The Other category includes 14 auto carriers and nine 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 2004

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.
10,001-15,000	14	12.6	0	0.0	0	0.0	0	0.0	0	0.0	14	0.4
15,001-20,000	82	73.9	5	0.2	0	0.0	0	0.0	0	0.0	87	2.5
20,001-25,000	8	7.2	47	1.5	2	1.3	0	0.0	0	0.0	57	1.7
25,001-30,000	5	4.5	436	13.8	4	2.6	0	0.0	0	0.0	445	12.9
30,001-35,000	1	0.9	358	11.3	12	7.7	0	0.0	0	0.0	371	10.8
35,001-40,000	0	0.0	141	4.5	6	3.8	0	0.0	0	0.0	147	4.3
40,001-45,000	0	0.0	85	2.7	6	3.8	0	0.0	0	0.0	91	2.6
45,001-50,000	0	0.0	93	2.9	7	4.5	0	0.0	0	0.0	100	2.9
50,001-55,000	0	0.0	107	3.4	15	9.6	0	0.0	0	0.0	122	3.5
55,001-60,000	0	0.0	97	3.1	10	6.4	0	0.0	1	20.0	108	3.1
60,001-65,000	0	0.0	107	3.4	6	3.8	0	0.0	0	0.0	113	3.3
65,001-70,000	0	0.0	165	5.2	10	6.4	0	0.0	0	0.0	175	5.1
70,001-75,000	0	0.0	288	9.1	7	4.5	0	0.0	0	0.0	295	8.6
75,001-80,000	0	0.0	458	14.5	14	9.0	0	0.0	0	0.0	472	13.7
80,001-85,000	0	0.0	58	1.8	7	4.5	0	0.0	0	0.0	65	1.9
85,001-90,000	0	0.0	20	0.6	2	1.3	0	0.0	0	0.0	22	0.6
90,001-95,000	0	0.0	7	0.2	2	1.3	0	0.0	0	0.0	9	0.3
95,001-100,000	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	8	0.2
100,001-110,000	0	0.0	12	0.4	5	3.2	0	0.0	0	0.0	17	0.5
110,001-120,000	0	0.0	5	0.2	1	0.6	0	0.0	0	0.0	6	0.2
120,001-130,000	0	0.0	2	0.1	2	1.3	0	0.0	1	20.0	5	0.1
130,001-140,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
140,001-150,000	0	0.0	0	0.0	0	0.0	0	0.0	1	20.0	1	0.0
150,001-160,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
160,001-170,000	0	0.0	0	0.0	0	0.0	0	0.0	1	20.0	1	0.0
170,001 and over	0	0.0	1	0.0	1	0.6	0	0.0	1	20.0	3	0.1
Unknown	1	0.9	665	21.0	37	23.7	0	0.0	0	0.0	703	20.5
Total	111	100.0	3165	100.0	156	100.0	0	0.0	5	100.0	3437	100.0

**Table 6-9
Fatal Truck Involvements by Gross Combination Weight and Cargo Body Style – TRACTOR-SEMITRAILERS
TIFA 2004**

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	3	0.2	1	0.2	0	0.0	0	0.0	1	2.5	0	0.0	0	0.0	0	0.0	5	0.2
20,001-25,000	21	1.2	9	1.7	5	1.7	4	1.1	0	0.0	6	5.1	2	3.5	0	0.0	47	1.5
25,001-30,000	154	8.9	101	19.2	68	23.0	69	19.2	2	5.0	30	25.4	10	17.5	2	5.3	436	13.8
30,001-35,000	213	12.3	44	8.4	28	9.5	56	15.6	10	25.0	3	2.5	3	5.3	1	2.6	358	11.3
35,001-40,000	91	5.3	21	4.0	13	4.4	9	2.5	1	2.5	1	0.8	4	7.0	0	0.0	140	4.4
40,001-45,000	63	3.7	15	2.9	3	1.0	2	0.6	0	0.0	0	0.0	2	3.5	0	0.0	85	2.7
45,001-50,000	67	3.9	17	3.2	1	0.3	3	0.8	1	2.5	1	0.8	3	5.3	0	0.0	93	2.9
50,001-55,000	77	4.5	19	3.6	1	0.3	4	1.1	0	0.0	2	1.7	4	7.0	0	0.0	107	3.4
55,001-60,000	69	4.0	17	3.2	2	0.7	5	1.4	2	5.0	0	0.0	1	1.8	0	0.0	96	3.0
60,001-65,000	73	4.2	24	4.6	1	0.3	4	1.1	0	0.0	2	1.7	3	5.3	0	0.0	107	3.4
65,001-70,000	102	5.9	23	4.4	13	4.4	15	4.2	2	5.0	5	4.2	4	7.0	1	2.6	165	5.2
70,001-75,000	183	10.6	65	12.4	14	4.7	15	4.2	2	5.0	8	6.8	1	1.8	0	0.0	288	9.1
75,001-80,000	177	10.3	76	14.4	88	29.7	80	22.2	9	22.5	19	16.1	7	12.3	2	5.3	458	14.5
80,001-85,000	11	0.6	5	1.0	12	4.1	18	5.0	3	7.5	9	7.6	0	0.0	0	0.0	58	1.8
85,001-90,000	2	0.1	0	0.0	1	0.3	8	2.2	2	5.0	6	5.1	1	1.8	0	0.0	20	0.6
90,001-95,000	2	0.1	2	0.4	2	0.7	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	7	0.2
95,001-100,000	0	0.0	1	0.2	1	0.3	4	1.1	0	0.0	1	0.8	1	1.8	0	0.0	8	0.3
100,001-110,000	1	0.1	1	0.2	0	0.0	9	2.5	0	0.0	0	0.0	1	1.8	0	0.0	12	0.4
110,001-120,000	1	0.1	2	0.4	0	0.0	2	0.6	0	0.0	0	0.0	0	0.0	0	0.0	5	0.2
120,001-130,000	0	0.0	0	0.0	0	0.0	2	0.6	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
Unknown	415	24.1	83	15.8	43	14.5	50	13.9	5	12.5	25	21.2	10	17.5	32	84.2	663	21.0
Total	1725	100.0	526	100.0	296	100.0	360	100.0	40	100.0	118	100.0	57	100.0	38	100.0	3160	100.0

Table 6-10
Fatal Truck Involvements by Gross Combination Weight and Cargo Body Style – DOUBLES
TIFA 2004

Gross combination weight (lbs)	Van		Flatbed		Tank		Dump		Pole/logging		Other		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
20,001-25,000	0	0.0	0	0.0	1	6.7	1	3.6	0	0.0	0	0.0	2	1.3
25,001-30,000	0	0.0	0	0.0	1	6.7	2	7.1	0	0.0	1	33.3	4	2.6
30,001-35,000	6	6.5	2	12.5	2	13.3	1	3.6	0	0.0	1	33.3	12	7.7
35,001-40,000	3	3.3	2	12.5	0	0.0	1	3.6	0	0.0	0	0.0	6	3.8
40,001-45,000	5	5.4	1	6.3	0	0.0	0	0.0	0	0.0	0	0.0	6	3.8
45,001-50,000	5	5.4	0	0.0	0	0.0	2	7.1	0	0.0	0	0.0	7	4.5
50,001-55,000	13	14.1	0	0.0	1	6.7	1	3.6	0	0.0	0	0.0	15	9.6
55,001-60,000	7	7.6	2	12.5	0	0.0	1	3.6	0	0.0	0	0.0	10	6.4
60,001-65,000	6	6.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	3.8
65,001-70,000	8	8.7	1	6.3	1	6.7	0	0.0	0	0.0	0	0.0	10	6.4
70,001-75,000	5	5.4	1	6.3	0	0.0	1	3.6	0	0.0	0	0.0	7	4.5
75,001-80,000	2	2.2	2	12.5	7	46.7	2	7.1	0	0.0	1	33.3	14	9.0
80,001-85,000	0	0.0	1	6.3	1	6.7	5	17.9	0	0.0	0	0.0	7	4.5
85,001-90,000	1	1.1	0	0.0	0	0.0	0	0.0	1	50.0	0	0.0	2	1.3
90,001-95,000	1	1.1	0	0.0	0	0.0	1	3.6	0	0.0	0	0.0	2	1.3
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
100,001-110,000	0	0.0	1	6.3	1	6.7	2	7.1	1	50.0	0	0.0	5	3.2
110,001-120,000	0	0.0	1	6.3	0	0.0	0	0.0	0	0.0	0	0.0	1	0.6
120,001-130,000	1	1.1	0	0.0	0	0.0	1	3.6	0	0.0	0	0.0	2	1.3
170,001-180,000	0	0.0	0	0.0	0	0.0	1	3.6	0	0.0	0	0.0	1	0.6
Unknown	29	31.5	2	12.5	0	0.0	6	21.4	0	0.0	0	0.0	37	23.7
Total	92	100.0	16	100.0	15	100.0	28	100.0	2	100.0	3	100.0	156	100.0

**Table 6-11
Fatal Truck Involvements by Empty Combination Weight and Truck Configuration – Tractor Combinations
TIFA 2004**

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.
10,001-15,000	14	12.6	2	0.1	0	0.0	0	0.0	0	0.0	16	0.5
15,001-20,000	93	83.8	16	0.5	0	0.0	0	0.0	1	20.0	110	3.2
20,001-25,000	3	2.7	121	3.8	7	4.5	0	0.0	0	0.0	131	3.8
25,001-30,000	0	0.0	1321	41.7	34	21.8	0	0.0	0	0.0	1355	39.4
30,001-35,000	1	0.9	1266	40.0	54	34.6	0	0.0	0	0.0	1321	38.4
35,001-40,000	0	0.0	185	5.8	35	22.4	0	0.0	0	0.0	220	6.4
40,001-45,000	0	0.0	21	0.7	7	4.5	0	0.0	0	0.0	28	0.8
45,001-50,000	0	0.0	5	0.2	7	4.5	0	0.0	0	0.0	12	0.3
50,001-55,000	0	0.0	0	0.0	3	1.9	0	0.0	0	0.0	3	0.1
55,001-60,000	0	0.0	1	0.0	1	0.6	0	0.0	1	20.0	3	0.1
60,001-65,000	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
65,001-70,000	0	0.0	1	0.0	0	0.0	0	0.0	1	20.0	2	0.1
70,001-75,000	0	0.0	0	0.0	0	0.0	0	0.0	1	20.0	1	0.0
75,001-80,000	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
80,001-85,000	0	0.0	0	0.0	0	0.0	0	0.0	1	20.0	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	223	7.0	8	5.1	0	0.0	0	0.0	231	6.7
Total	111	100.0	3165	100.0	156	100.0	0	0.0	5	100.0	3437	100.0

**Table 6-12
Fatal Truck Involvements by Empty Combination Weight and Cargo Body Style – TRACTOR-SEMITRAILERS
TIFA 2004**

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.
10,001-15,000	0	0.0	0	0.0	0	0.0	0	0.0	1	2.5	0	0.0	0	0.0	0	0.0	1	0.0
15,001-20,000	10	0.6	4	0.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.6	15	0.5
20,001-25,000	53	3.1	21	4.0	13	4.4	11	3.1	0	0.0	16	13.6	5	8.8	0	0.0	119	3.8
25,001-30,000	571	33.1	302	57.4	162	54.7	181	50.3	13	32.5	72	61.0	17	29.8	3	7.9	1321	41.8
30,001-35,000	885	51.3	138	26.2	69	23.3	125	34.7	19	47.5	13	11.0	15	26.3	2	5.3	1266	40.1
35,001-40,000	114	6.6	20	3.8	20	6.8	18	5.0	3	7.5	2	1.7	8	14.0	0	0.0	185	5.9
40,001-45,000	2	0.1	6	1.1	8	2.7	5	1.4	0	0.0	0	0.0	0	0.0	0	0.0	21	0.7
45,001-50,000	0	0.0	2	0.4	1	0.3	1	0.3	0	0.0	0	0.0	1	1.8	0	0.0	5	0.2
50,001-55,000	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
55,001-60,000	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
60,001-65,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.8	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	1	1.8	0	0.0	1	0.0
70,001-75,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
75,001-80,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.8	0	0.0	1	0.0
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	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	0	0.0	0	0.0	0	0.0
Unknown	90	5.2	32	6.1	23	7.8	19	5.3	4	10.0	15	12.7	8	14.0	32	84.2	223	7.1
Total	1725	100.0	526	100.0	296	100.0	360	100.0	40	100.0	118	100.0	57	100.0	38	100.0	3160	100.0

Table 6-13
Fatal Truck Involvements by Empty Combination Weight and Cargo Body Style – DOUBLES
TIFA 2004

Empty combination wt. (lbs)	Van		Flatbed		Tank		Dump		Pole/Logging		Other		Total	
	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	0	0.0	0	0.0	0	0.0	0	0.0
20,001-25,000	0	0.0	1	6.3	3	20.0	0	10.7	0	0.0	0	0.0	7	4.5
25,001-30,000	14	15.2	5	31.3	5	33.3	8	28.6	0	0.0	2	66.7	34	21.8
30,001-35,000	45	48.9	3	18.8	2	13.3	3	10.7	0	0.0	1	33.3	54	34.6
35,001-40,000	25	27.2	3	18.8	3	20.0	3	10.7	1	50.0	0	0.0	35	22.4
40,001-45,000	2	2.2	1	6.3	0	0.0	3	10.7	1	50.0	0	0.0	7	4.5
45,001-50,000	2	2.2	1	6.3	1	6.7	3	10.7	0	0.0	0	0.0	7	4.5
50,001-55,000	0	0.0	1	6.3	1	6.7	1	3.6	0	0.0	0	0.0	3	1.9
55,001-60,000	0	0.0	0	0.0	0	0.0	1	3.6	0	0.0	0	0.0	1	0.6
Unknown	4	4.3	1	6.3	0	0.0	3	10.7	0	0.0	0	0.0	8	5.1
Total	92	100.0	16	100.0	15	100.0	28	100.0	2	100.0	3	100.0	156	100.0

Table 6-14A
Fatal Truck Involvements by Axle Combinations – Tractors, No Trailers
TIFA 2004

Power unit axles	No.	Pct.
2	12	10.8
3	97	87.4
4	2	1.8
Total	111	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 2004

Power unit axles	1st trailer axles	No.	Pct.
2	1	34	1.1
2	2	76	2.4
2	3	2	0.1
3	1	11	0.3
3	2	2823	89.3
3	3	94	3.0
3	4	10	0.3
3	5	2	0.1
3	6	3	0.1
3	7	1	0.0
3	8	1	0.0
4	2	9	0.3
4	3	6	0.2
4	4	7	0.2
4	5	1	0.0
5	2	1	0.0
Unknown		79	2.5
Total		3160	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 2004

Power unit axles	1st trailer axles	2nd trailer axles	No.	Pct.
2	1	2	83	53.2
2	2	2	3	1.9
2	2	3	1	0.6
3	1	2	25	16.0
3	2	2	10	6.4
3	2	3	5	3.2
3	2	4	7	4.5
3	3	2	1	0.6
3	3	3	1	0.6
3	3	4	1	0.6
3	3	5	4	2.6
3	4	3	1	0.6
3	4	4	1	0.6
3	5	3	2	1.3
4	2	2	2	1.3
5	5	4	1	0.6
Unknown			8	5.1
Total			156	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 2004

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	22	19.8	452	14.3	14	9.0	0	0.0	0	0.0	488	14.2
Interstate for-hire	65	58.6	2140	67.6	106	67.9	0	0.0	4	80.0	2315	67.4
Intrastate private	8	7.2	201	6.4	8	5.1	0	0.0	1	20.0	218	6.3
Intrastate for-hire	8	7.2	195	6.2	21	13.5	0	0.0	0	0.0	224	6.5
Government owned	0	0.0	10	0.3	0	0.0	0	0.0	0	0.0	10	0.3
Daily rental	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Unknown	8	7.2	166	5.2	7	4.5	0	0.0	0	0.0	181	5.3
Total	111	100.0	3165	100.0	156	100.0	0	0.0	5	100.0	3437	100.0

Table 6-16
Fatal Truck Involvements by Carrier Type and Cargo Body Style – Tractor Combinations
TIFA 2004

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	200	11.0	92	16.8	58	18.6	69	17.8	3	7.5	21	17.5	18	27.3	27	18.1	488	14.2
Interstate for-hire	1457	80.2	348	63.7	191	61.4	148	38.1	30	75.0	33	27.5	27	40.9	81	54.4	2315	67.4
Intrastate private	41	2.3	48	8.8	28	9.0	55	14.2	2	5.0	26	21.7	9	13.6	9	6.0	218	6.3
Intrastate for-hire	46	2.5	30	5.5	26	8.4	83	21.4	1	2.5	20	16.7	10	15.2	8	5.4	224	6.5
Government owned	5	0.3	2	0.4	0	0.0	3	0.8	0	0.0	0	0.0	0	0.0	0	0.0	10	0.3
Daily rental	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Unknown	67	3.7	26	4.8	8	2.6	30	7.7	4	10.0	20	16.7	2	3.0	24	16.1	181	5.3
Total	1817	100.0	546	100.0	311	100.0	388	100.0	40	100.0	120	100.0	66	100.0	149	100.0	3437	100.0

* Note: The Other category includes 14 auto carriers and nine refuse trucks.

Table 6-17
Fatal Truck Involvements by Trip Type and Cargo Body Style – Tractor Combinations
TIFA 2004

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	133	7.3	101	18.5	81	26.0	167	43.0	1	2.5	50	41.7	22	33.3	47	31.5	602	17.5
51-100 miles	165	9.1	56	10.3	63	20.3	85	21.9	4	10.0	35	29.2	12	18.2	18	12.1	438	12.7
101-200	200	11.0	76	13.9	57	18.3	43	11.1	9	22.5	6	5.0	5	7.6	7	4.7	403	11.7
201-500	387	21.3	116	21.2	42	13.5	17	4.4	10	25.0	3	2.5	14	21.2	13	8.7	602	17.5
Over 500	549	30.2	97	17.8	28	9.0	9	2.3	13	32.5	0	0.0	4	6.1	7	4.7	707	20.6
Unk over-the-road dist	93	5.1	18	3.3	4	1.3	4	1.0	0	0.0	0	0.0	0	0.0	2	1.3	121	3.5
Unknown	290	16.0	82	15.0	36	11.6	63	16.2	3	7.5	26	21.7	9	13.6	55	36.9	564	16.4
Total	1817	100.0	546	100.0	311	100.0	388	100.0	40	100.0	120	100.0	66	100.0	149	100.0	3437	100.0

* Note: The Other category includes 14 auto carriers and nine refuse trucks.

**Table 6-18
Fatal Truck Involvements by Route Signing and Cargo Body Style – Tractor Combinations
TIFA 2004**

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	858	47.2	143	26.2	63	20.3	33	8.5	8	20.0	3	2.5	18	27.3	41	27.5	1167	34.0
US highway	438	24.1	176	32.2	87	28.0	109	28.1	19	47.5	33	27.5	20	30.3	27	18.1	909	26.4
State highway	371	20.4	150	27.5	123	39.5	154	39.7	9	22.5	61	50.8	18	27.3	45	30.2	931	27.1
County road	73	4.0	32	5.9	19	6.1	55	14.2	2	5.0	17	14.2	4	6.1	13	8.7	215	6.3
Township	8	0.4	7	1.3	3	1.0	3	0.8	2	5.0	1	0.8	0	0.0	4	2.7	28	0.8
Municipality	47	2.6	21	3.8	8	2.6	20	5.2	0	0.0	2	1.7	2	3.0	10	6.7	110	3.2
Frontage road	6	0.3	2	0.4	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	9	0.3
Other	10	0.6	10	1.8	8	2.6	11	2.8	0	0.0	3	2.5	4	6.1	8	5.4	54	1.6
Unknown	6	0.3	5	0.9	0	0.0	2	0.5	0	0.0	0	0.0	0	0.0	1	0.7	14	0.4
Total	1817	100.0	546	100.0	311	100.0	388	100.0	40	100.0	120	100.0	66	100.0	149	100.0	3437	100.0

* Note: The Other category includes 14 auto carriers and nine refuse trucks.

**Table 6-19
Fatal Truck Involvements by Land Use and Cargo Body Style – Tractor Combinations
TIFA 2004**

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	571	31.4	134	24.5	88	28.3	99	25.5	8	20.0	17	14.2	14	21.2	65	43.6	996	29.0
Rural	1236	68.0	406	74.4	223	71.7	288	74.2	31	77.5	103	85.8	52	78.8	83	55.7	2422	70.5
Unknown	10	0.6	6	1.1	0	0.0	1	0.3	1	2.5	0	0.0	0	0.0	1	0.7	19	0.6
Total	1817	100.0	546	100.0	311	100.0	388	100.0	40	100.0	120	100.0	66	100.0	149	100.0	3437	100.0

* Note: The Other category includes 14 auto carriers and nine refuse trucks.

**Table 6-20
Fatal Truck Involvements by Light Condition and Cargo Body Style – Tractor Combinations
TIFA 2004**

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	998	54.9	370	67.8	189	60.8	287	74.0	20	50.0	89	74.2	46	69.7	75	50.3	2074	60.3
Dark	564	31.0	125	22.9	81	26.0	62	16.0	16	40.0	21	17.5	15	22.7	48	32.2	932	27.1
Dark but lighted	185	10.2	32	5.9	33	10.6	19	4.9	2	5.0	2	1.7	3	4.5	15	10.1	291	8.5
Dawn	48	2.6	10	1.8	5	1.6	17	4.4	1	2.5	4	3.3	2	3.0	5	3.4	92	2.7
Dusk	22	1.2	9	1.6	2	0.6	3	0.8	1	2.5	4	3.3	0	0.0	6	4.0	47	1.4
Unknown	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Total	1817	100.0	546	100.0	311	100.0	388	100.0	40	100.0	120	100.0	66	100.0	149	100.0	3437	100.0

* Note: The Other category includes 14 auto carriers and nine refuse trucks.

Accident description

Table 6-21
Fatal Truck Involvements by Manner of Collision and Cargo Body Style – Tractor Combinations
TIFA 2004

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	374	20.6	104	19.0	86	27.7	53	13.7	7	17.5	16	13.3	10	15.2	39	26.2	689	20.0
Rear-end	500	27.5	104	19.0	42	13.5	67	17.3	5	12.5	19	15.8	14	21.2	32	21.5	783	22.8
Head-on	247	13.6	95	17.4	51	16.4	52	13.4	6	15.0	23	19.2	13	19.7	28	18.8	515	15.0
Front-to-side: same dir	67	3.7	18	3.3	9	2.9	16	4.1	4	10.0	4	3.3	1	1.5	2	1.3	121	3.5
Front-to-side: opp dir	206	11.3	83	15.2	53	17.0	60	15.5	1	2.5	10	8.3	11	16.7	17	11.4	441	12.8
Front-to-side: right angle	286	15.7	94	17.2	48	15.4	105	27.1	14	35.0	35	29.2	12	18.2	21	14.1	615	17.9
Front-to-side: other	5	0.3	2	0.4	1	0.3	0	0.0	0	0.0	2	1.7	0	0.0	1	0.7	11	0.3
Sideswipe:same dir	61	3.4	12	2.2	9	2.9	14	3.6	1	2.5	2	1.7	3	4.5	4	2.7	106	3.1
Sideswipe:opp dir	50	2.8	28	5.1	10	3.2	19	4.9	2	5.0	7	5.8	2	3.0	3	2.0	121	3.5
Rear-to-side	10	0.6	4	0.7	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	15	0.4
Other	8	0.4	2	0.4	1	0.3	2	0.5	0	0.0	2	1.7	0	0.0	2	1.3	17	0.5
Unknown	3	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Total	1817	100.0	546	100.0	311	100.0	388	100.0	40	100.0	120	100.0	66	100.0	149	100.0	3437	100.0

* Note: The Other category includes 14 auto carriers and nine refuse trucks.

Table 6-22
Fatal Truck Involvements by Accident Type and Driver Injury Severity – Tractor Combinations
TIFA 2004

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	89	20.2	2	1.5	1	0.3	1	0.3	0	0.0	0	0.0	93	2.7
Hit object in road	117	26.5	8	5.9	5	1.6	5	1.4	204	9.5	3	9.4	342	10.0
<i>Same direction, same trafficway</i>														
Rearend, truck striking	52	11.8	13	9.6	32	10.1	25	6.9	138	6.4	0	0.0	260	7.6
Rearend, truck struck	4	0.9	4	2.9	18	5.7	34	9.4	246	11.5	18	56.3	324	9.4
Sideswipe, in other's lane	4	0.9	0	0.0	0	0.0	1	0.3	19	0.9	0	0.0	24	0.7
Sideswipe, in truck's lane	5	1.1	0	0.0	5	1.6	7	1.9	94	4.4	1	3.1	112	3.3
<i>Opposite direction, same trafficway</i>														
Head-on, in other's lane	8	1.8	5	3.7	7	2.2	7	1.9	13	0.6	0	0.0	40	1.2
Head-on, in truck's lane	16	3.6	27	19.9	62	19.5	96	26.5	180	8.4	0	0.0	381	11.1
Sideswipe, in other's lane	7	1.6	3	2.2	10	3.1	8	2.2	20	0.9	0	0.0	48	1.4
Sideswipe, in truck's lane	10	2.3	11	8.1	46	14.5	34	9.4	282	13.1	0	0.0	383	11.1
<i>Change trafficway, one vehicle turning</i>														
Truck turn across path	1	0.2	0	0.0	5	1.6	4	1.1	109	5.1	0	0.0	119	3.5
Other turn across path	11	2.5	9	6.6	21	6.6	13	3.6	122	5.7	0	0.0	176	5.1
<i>Intersecting paths, both going straight</i>														
Truck into side of other	7	1.6	21	15.4	36	11.3	44	12.2	159	7.4	0	0.0	267	7.8
Other into side of truck	2	0.5	6	4.4	11	3.5	9	2.5	101	4.7	0	0.0	129	3.8
<i>Other accident types</i>														
Truck backed into other	0	0.0	0	0.0	0	0.0	1	0.3	18	0.8	1	3.1	20	0.6
Other backed into truck	0	0.0	0	0.0	0	0.0	1	0.3	1	0.0	0	0.0	2	0.1
Untripped roll	69	15.6	3	2.2	10	3.1	2	0.6	10	0.5	0	0.0	94	2.7
No impact	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	2	0.1
Other	29	6.6	18	13.2	36	11.3	53	14.6	383	17.8	9	28.1	528	15.4
Unknown	10	2.3	6	4.4	13	4.1	17	4.7	47	2.2	0	0.0	93	2.7
Total	441	100.0	136	100.0	318	100.0	362	100.0	2148	100.0	32	100.0	3437	100.0

Table 6-23
Fatal Truck Involvements by Driver Injury Severity and Cargo Body Style – Tractor Combinations
TIFA 2004

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)	223	12.3	66	12.1	73	23.5	41	10.6	2	5.0	16	13.3	5	7.6	15	10.1	441	12.8
Incapacitating (A)	69	3.8	22	4.0	10	3.2	16	4.1	2	5.0	8	6.7	2	3.0	7	4.7	136	4.0
Non-incapacitating (B)	156	8.6	57	10.4	29	9.3	39	10.1	2	5.0	15	12.5	8	12.1	12	8.1	318	9.3
Complaint of pain (C)	197	10.8	59	10.8	19	6.1	41	10.6	7	17.5	10	8.3	9	13.6	20	13.4	362	10.5
No injury (O)	1156	63.6	335	61.4	179	57.6	247	63.7	27	67.5	71	59.2	42	63.6	91	61.1	2148	62.5
Unknown	16	0.9	7	1.3	1	0.3	4	1.0	0	0.0	0	0.0	0	0.0	4	2.7	32	0.9
Total	1817	100.0	546	100.0	311	100.0	388	100.0	40	100.0	120	100.0	66	100.0	149	100.0	3437	100.0

* Note: The Other category includes 14 auto carriers and nine refuse trucks.

Table 6-24
Fatal Truck Involvements by Driver Injury Severity and Rollover, Fire, Ejection Status – Tractor Combinations
TIFA 2004

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	131	29.7	25	18.4	59	18.6	27	7.5	60	2.8	0	0.0	302	8.8
Fire only	51	11.6	9	6.6	21	6.6	30	8.3	65	3.0	0	0.0	176	5.1
Ejection only	35	7.9	3	2.2	2	0.6	0	0.0	0	0.0	0	0.0	40	1.2
Rollover and fire	34	7.7	2	1.5	8	2.5	2	0.6	1	0.0	0	0.0	47	1.4
Rollover and ejection	57	12.9	4	2.9	0	0.0	0	0.0	0	0.0	0	0.0	61	1.8
Fire and ejection	8	1.8	2	1.5	1	0.3	0	0.0	0	0.0	0	0.0	11	0.3
Rollover, fire & eject	8	1.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8	0.2
None	113	25.6	91	66.9	227	71.4	303	83.7	2022	94.1	6	18.8	2762	80.4
Unknown	4	0.9	0	0.0	0	0.0	0	0.0	0	0.0	26	81.3	30	0.9
Total	441	100.0	136	100.0	318	100.0	362	100.0	2148	100.0	32	100.0	3437	100.0

Table 6-25
Fatal Truck Involvements by Rollover Status and Gross Combination Weight – TRACTOR-SEMITRAILERS
TIFA 2004

Gross combination wt. (lbs)	No rollover		First event		Subsequent event		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
15,001-20,000	5	0.2	0	0.0	0	0.0	5	0.2
20,001-25,000	45	1.6	1	1.0	1	0.4	47	1.5
25,001-30,000	422	15.2	2	1.9	12	4.4	436	13.8
30,001-35,000	347	12.5	1	1.0	10	3.7	358	11.3
35,001-40,000	133	4.8	3	2.9	4	1.5	140	4.4
40,001-45,000	75	2.7	2	1.9	8	3.0	85	2.7
45,001-50,000	83	3.0	2	1.9	8	3.0	93	2.9
50,001-55,000	92	3.3	5	4.8	10	3.7	107	3.4
55,001-60,000	83	3.0	2	1.9	11	4.1	96	3.0
60,001-65,000	95	3.4	1	1.0	11	4.1	107	3.4
65,001-70,000	137	4.9	8	7.6	20	7.4	165	5.2
70,001-75,000	242	8.7	14	13.3	32	11.9	288	9.1
75,001-80,000	362	13.0	30	28.6	66	24.4	458	14.5
80,001-85,000	44	1.6	3	2.9	11	4.1	58	1.8
85,001-90,000	16	0.6	0	0.0	4	1.5	20	0.6
90,001-95,000	3	0.1	2	1.9	2	0.7	7	0.2
95,001-100,000	6	0.2	0	0.0	2	0.7	8	0.3
100,001-110,000	9	0.3	1	1.0	2	0.7	12	0.4
110,001-120,000	3	0.1	1	1.0	1	0.4	5	0.2
120,001-130,000	2	0.1	0	0.0	0	0.0	2	0.1
Unknown	581	20.9	27	25.7	55	20.4	663	21.0
Total	2785	100.0	105	100.0	270	100.0	3160	100.0

Table 6-26
Fatal Truck Involvements by Jackknife Status and Gross Combination Weight – TRACTOR-SEMITRAILERS
TIFA 2004

Gross combination wt. (lbs)	No jackknife		First event		Subsequent event		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
15,001-20,000	5	0.2	0	0.0	0	0.0	5	0.2
20,001-25,000	41	1.4	0	0.0	6	3.3	47	1.5
25,001-30,000	394	13.5	10	14.5	32	17.5	436	13.8
30,001-35,000	315	10.8	13	18.8	30	16.4	358	11.3
35,001-40,000	128	4.4	5	7.2	7	3.8	140	4.4
40,001-45,000	77	2.6	3	4.3	5	2.7	85	2.7
45,001-50,000	86	3.0	4	5.8	3	1.6	93	2.9
50,001-55,000	99	3.4	1	1.4	7	3.8	107	3.4
55,001-60,000	90	3.1	3	4.3	3	1.6	96	3.0
60,001-65,000	99	3.4	3	4.3	5	2.7	107	3.4
65,001-70,000	155	5.3	3	4.3	7	3.8	165	5.2
70,001-75,000	270	9.3	3	4.3	15	8.2	288	9.1
75,001-80,000	431	14.8	10	14.5	17	9.3	458	14.5
80,001-85,000	55	1.9	0	0.0	3	1.6	58	1.8
85,001-90,000	17	0.6	1	1.4	2	1.1	20	0.6
90,001-95,000	7	0.2	0	0.0	0	0.0	7	0.2
95,001-100,000	7	0.2	0	0.0	1	0.5	8	0.3
100,001-110,000	10	0.3	0	0.0	2	1.1	12	0.4
110,001-120,000	5	0.2	0	0.0	0	0.0	5	0.2
120,001-130,000	2	0.1	0	0.0	0	0.0	2	0.1
Unknown	615	21.1	10	14.5	38	20.8	663	21.0
Total	2908	100.0	69	100.0	183	100.0	3160	100.0

Longer combination vehicles

This section provides descriptive statistics on longer combination vehicles (LCVs) involved in a fatal traffic accident in 2004. 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 2004

Configuration	No.	Pct.
<i>Longer combination vehicles</i>		
Double with A dolly	13	8.3
Double, B train	0	0.0
Double, C dolly	2	1.3
Tractor + semi + full	22	14.1
Tractor + semi + other	1	0.6
Tractor + semi + unknown	1	0.6
<i>Subtotal</i>	39	25.0
<i>Non-LCV tractor and two trailers</i>		
<i>STAA double</i>		
Double with A dolly	53	34.0
Double, B train	2	1.3
Double, C dolly	2	1.3
Double, unknown dolly	4	2.6
Tractor + semi + full	30	19.2
<i>Subtotal</i>	91	58.3
<i>Unknown double</i>		
Double with A dolly	15	9.6
Double, unknown dolly	3	1.9
Tractor + semi + full	6	3.8
Tractor + semi + unknown	2	1.3
<i>Subtotal</i>	26	16.7
Total	156	100.0

Table 7-2
Fatal Truck Involvements of LCVs and "STAA Doubles" by Year
TIFA 2000-2004

Combination type	2000		2001		2002		2003		2004		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<i>Longer combination vehicles</i>												
Overlength	12	7.3	18	10.8	13	8.4	13	8.2	19	12.2	75	9.4
Overweight	10	6.1	7	4.2	4	2.6	4	2.5	9	5.8	34	4.3
Both	19	11.6	12	7.2	13	8.4	13	8.2	11	7.1	68	8.5
Triple	2	1.2	0	0.0	1	0.6	1	0.6	0	0.0	4	0.5
<i>Subtotal</i>	43	26.2	37	22.3	31	20.0	31	19.6	39	25.0	181	22.7
<i>Non-LCV tractor and two trailers</i>												
STAA double	112	68.3	103	62.0	109	70.3	113	71.5	91	58.3	528	66.1
Unknown double	9	5.5	26	15.7	15	9.7	14	8.9	26	16.7	90	11.3
Total	164	100.0	166	100.0	155	100.0	158	100.0	156	100.0	799	100.0

Table 7-3
Fatal Truck Involvements for Common LCV Types
TIFA 2004

Combination type	No.	Pct.
Rocky Mountain double	9	23.1
Turnpike double	6	15.4
Other LCV	15	38.5
Overweight	9	23.1
Triple	0	0.0
Total	39	100.0

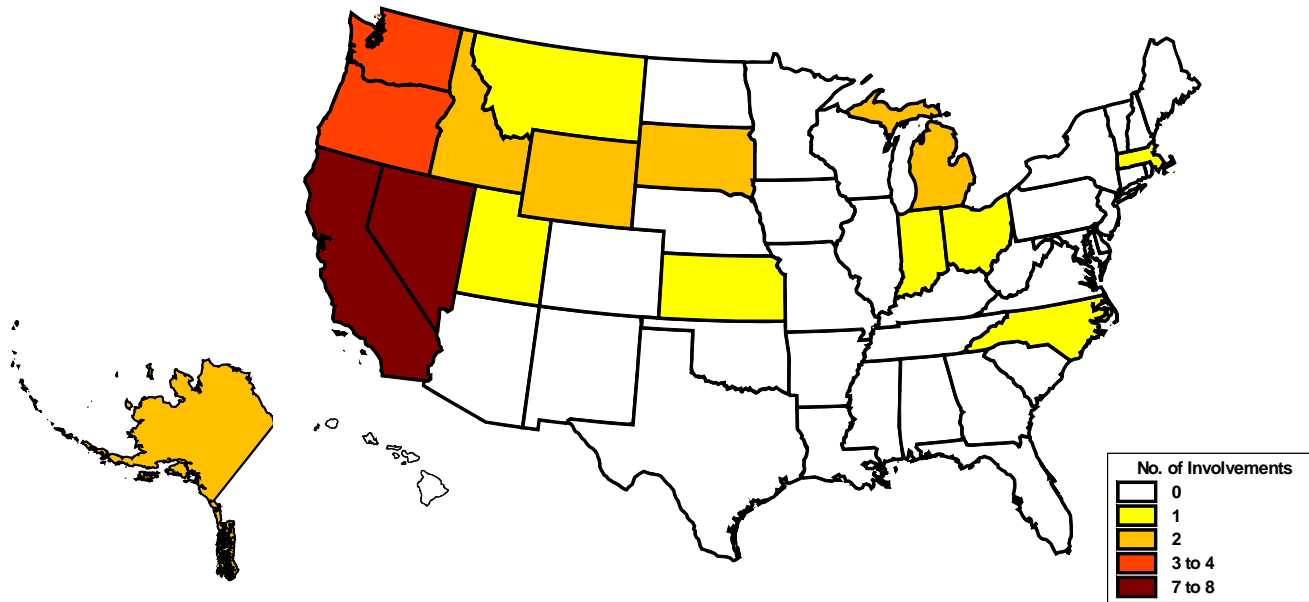


Figure 7-1: Fatal LCV Involvements by State, TIFA 2004

**Table 7-4
Fatal Truck Involvements by State and LCV Type
TIFA 2004**

State	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Alaska	2	10.5	0	0.0	0	0.0	0	0.0	2	5.1
California	1	5.3	6	66.7	0	0.0	0	0.0	7	17.9
Idaho	1	5.3	0	0.0	1	9.1	0	0.0	2	5.1
Indiana	0	0.0	1	11.1	0	0.0	0	0.0	1	2.6
Kansas	1	5.3	0	0.0	0	0.0	0	0.0	1	2.6
Massachusetts	1	5.3	0	0.0	0	0.0	0	0.0	1	2.6
Michigan	2	10.5	0	0.0	0	0.0	0	0.0	2	5.1
Montana	1	5.3	0	0.0	0	0.0	0	0.0	1	2.6
Nevada	3	15.8	1	11.1	4	36.4	0	0.0	8	20.5
North Carolina	1	5.3	0	0.0	0	0.0	0	0.0	1	2.6
Ohio	0	0.0	0	0.0	1	9.1	0	0.0	1	2.6
Oregon	2	10.5	0	0.0	1	9.1	0	0.0	3	7.7
South Dakota	1	5.3	0	0.0	1	9.1	0	0.0	2	5.1
Utah	1	5.3	0	0.0	0	0.0	0	0.0	1	2.6
Washington	2	10.5	1	11.1	1	9.1	0	0.0	4	10.3
Wyoming	0	0.0	0	0.0	2	18.2	0	0.0	2	5.1
Total	19	100.0	9	100.0	11	100.0	0	0.0	39	100.0

**Table 7-5
Fatal Truck Involvements and Fatalities for Selected Combination Types
TIFA 2004**

Combination type	Involvements	Total fatalities	Fatalities per involvement
Longer combination vehicles			
Overlength	19	19	1.00
Overweight	9	10	1.11
Both	11	12	1.09
Triple	0	0	0.00
Subtotal	39	41	1.05
Non-LCV tractor and two trailers			
"STAA double"	91	118	1.30
Unknown double	26	38	1.46
Subtotal	117	156	1.33
Other tractor combination			
Tractor-semitrailer	3160	3369	1.07

Table 7-6
Fatal Truck Involvements by Total Length and LCV Type
TIFA 2004

Length (in feet)	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
61-65	0	0.0	3	33.3	0	0.0	0	0.0	3	7.7
66-70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
71-75	0	0.0	3	33.3	0	0.0	0	0.0	3	7.7
76-80	5	26.3	2	22.2	2	18.2	0	0.0	9	23.1
81-85	3	15.8	0	0.0	1	9.1	0	0.0	4	10.3
86-90	3	15.8	0	0.0	3	27.3	0	0.0	6	15.4
91-95	2	10.5	0	0.0	1	9.1	0	0.0	3	7.7
96-100	1	5.3	1	11.1	1	9.1	0	0.0	3	7.7
101 +	5	26.3	0	0.0	3	27.3	0	0.0	8	20.5
Total	19	100.0	9	100.0	11	100.0	0	0.0	39	100.0

Table 7-7
Fatal Truck Involvements by Gross Combination Weight and LCV Type
TIFA 2004

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	10.5	0	0.0	0	0.0	0	0.0	2	5.1
35,001-40,000	4	21.1	0	0.0	0	0.0	0	0.0	4	10.3
40,001-45,000	1	5.3	0	0.0	0	0.0	0	0.0	1	2.6
45,001-50,000	3	15.8	0	0.0	0	0.0	0	0.0	3	7.7
50,001-55,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
55,001-60,000	3	15.8	0	0.0	0	0.0	0	0.0	3	7.7
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	5.3	0	0.0	0	0.0	0	0.0	1	2.6
75,001-80,000	2	10.5	0	0.0	0	0.0	0	0.0	2	5.1
80,001-85,000	0	0.0	6	66.7	1	9.1	0	0.0	7	17.9
85,001-90,000	0	0.0	1	11.1	1	9.1	0	0.0	2	5.1
90,001-95,000	0	0.0	1	11.1	1	9.1	0	0.0	2	5.1
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	45.5	0	0.0	5	12.8
110,001-120,000	0	0.0	1	11.1	0	0.0	0	0.0	1	2.6
120,001-130,000	0	0.0	0	0.0	2	18.2	0	0.0	2	5.1
130,001-140,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
140,001-150,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150,001-160,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
160,001-170,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170,001-180,000	0	0.0	0	0.0	1	9.1	0	0.0	1	2.6
Unknown	3	15.8	0	0.0	0	0.0	0	0.0	3	7.7
Total	19	100.0	9	100.0	11	100.0	0	0.0	39	100.0

Table 7-8
Fatal Truck Involvements by Cargo Body Style and LCV Type
TIFA 2004

Cargo body style	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Van	9	47.4	1	11.1	2	18.2	0	0.0	12	30.8
Flatbed	3	15.8	1	11.1	1	9.1	0	0.0	5	12.8
Lowboy	0	0.0	1	11.1	0	0.0	0	0.0	1	2.6
Flatbed with sides	1	5.3	0	0.0	0	0.0	0	0.0	1	2.6
Pole/logging	0	0.0	1	11.1	1	9.1	0	0.0	2	5.1
Tank:liquid/gas	2	10.5	1	11.1	1	9.1	0	0.0	4	10.3
Dump	1	5.3	0	0.0	1	9.1	0	0.0	2	5.1
Hopper bottom	3	15.8	4	44.4	5	45.5	0	0.0	12	30.8
Total	19	100.0	9	100.0	11	100.0	0	0.0	39	100.0

Table 7-9
Fatal Truck Involvements by Type of Cargo and LCV Type
TIFA 2004

Cargo type	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Empty	8	42.1	0	0.0	0	0.0	0	0.0	8	20.5
General freight	5	26.3	1	11.1	3	27.3	0	0.0	9	23.1
Metals (coils, sheets)	1	5.3	0	0.0	0	0.0	0	0.0	1	2.6
Heavy machinery	1	5.3	0	0.0	0	0.0	0	0.0	1	2.6
Large objects	0	0.0	2	22.2	0	0.0	0	0.0	2	5.1
Solids in bulk	2	10.5	4	44.4	6	54.5	0	0.0	12	30.8
Liquids in bulk	1	5.3	1	11.1	1	9.1	0	0.0	3	7.7
Logs/poles/lumber	0	0.0	1	11.1	1	9.1	0	0.0	2	5.1
Unknown	1	5.3	0	0.0	0	0.0	0	0.0	1	2.6
Total	19	100.0	9	100.0	11	100.0	0	0.0	39	100.0

Table 7-10
Fatal Truck Involvements by Road Class and LCV Type
TIFA 2004

Road class	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Interstate/urban	2	10.5	0	0.0	1	9.1	0	0.0	3	7.7
Interstate/rural	6	31.6	1	11.1	4	36.4	0	0.0	11	28.2
Major arterial/urban	0	0.0	1	11.1	2	18.2	0	0.0	3	7.7
Major arterial/rural	8	42.1	3	33.3	4	36.4	0	0.0	15	38.5
Other/urban	2	10.5	2	22.2	0	0.0	0	0.0	4	10.3
Other/rural	1	5.3	2	22.2	0	0.0	0	0.0	3	7.7
Total	19	100.0	9	100.0	11	100.0	0	0.0	39	100.0

Table 7-11
Fatal Truck Involvements by Carrier Type and LCV Type
TIFA 2004

Carrier type	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Interstate private	2	10.5	0	0.0	4	36.4	0	0.0	6	15.4
Interstate for-hire	12	63.2	5	55.6	6	54.5	0	0.0	23	59.0
Intrastate private	2	10.5	0	0.0	0	0.0	0	0.0	2	5.1
Intrastate for-hire	3	15.8	3	33.3	0	0.0	0	0.0	6	15.4
Unknown	0	0.0	1	11.1	1	9.1	0	0.0	2	5.1
Total	19	100.0	9	100.0	11	100.0	0	0.0	39	100.0

Table 7-12
Fatal Truck Involvements by First Harmful Event and LCV Type
TIFA 2004

First harmful event	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<i>Collision</i>										
Motor vehicle	15	78.9	7	77.8	11	100.0	0	0.0	33	84.6
Non-fixed	3	15.8	0	0.0	0	0.0	0	0.0	3	7.7
Fixed object	1	5.3	2	22.2	0	0.0	0	0.0	3	7.7
Total	19	100.0	9	100.0	11	100.0	0	0.0	39	100.0

Glossary and abbreviations

Glossary

A- dolly

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

Bobtail

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

B- train

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

C- dolly

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

Cabover

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

CDL

Commercial Driver's License

CNTBS

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

Combination vehicle

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

Conventional cab

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

Dolly (converter dolly)

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

Double

A combination vehicle consisting of a tractor pulling two trailers.

Ejection

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

Empty combination weight

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

FARS file

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

Fatal involvement

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

Fifth wheel

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

For-hire carrier

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

Full trailer

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

Gooseneck

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

Gross combination weight

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

Gross vehicle weight rating (GVWR)

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

Hopper bottom

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

Injury severity

Injuries are classified according to the following categories:

K = a fatal injury

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

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

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

O = no injury

Interstate carrier

A carrier that transports goods across state lines.

Intrastate carrier

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

Involvement

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

Jackknife

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

Jeep

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

License endorsements

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

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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