

TRUCKS INVOLVED IN FATAL ACCIDENTS FACTBOOK 1998



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University of Michigan Transportation Research Institute
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Center for National Truck Statistics

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16. Abstract This document presents aggregate statistics on trucks involved in traffic accidents in 1998. The statistics are derived from the Trucks Involved in Fatal Accidents (TIFA) file, compiled by the University of Michigan Transportation Research Institute. The TIFA database provides coverage of all medium and heavy trucks recorded in the Fatality Analysis Reporting System (FARS) file. TIFA combines vehicle, accident, and occupant records from FARS with information about the physical configuration and operating authority of the truck from the TIFA survey.					
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SI* (MODERN METRIC) CONVERSION FACTORS

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

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

(Revised September 1993)

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Introduction

This report, *Trucks Involved in Fatal Accidents Factbook, 1998*, 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 Statistics (CNTS) 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. For the 1998 accident year, survey cases were sampled from FARS to reduce survey costs. Sample weights are recorded to provide valid estimates of truck involvements in fatal traffic accidents.

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, 1998*.

Report overview

This report consists of seven sections. The "Trends" section provides data on fatalities and fatal accident involvements from 1994 through 1998. 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, 1994-1998

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 1994 to 1998.
- The number of persons killed in accidents involving a truck increased from 5,091 in 1995 to 5,629 in 1998.
- The number of truck drivers killed in traffic accidents decreased from 668 in 1997 to 658 in 1998.
- About 375 pedestrians and 75 bicyclists are killed each year in traffic accidents involving trucks.

The following abbreviations are used in this chapter:

Abbreviation	Definition
Strt	Straight truck
Trac	Tractor
Trlrs	Trailers
Combs/Oth combs	Combinations/other combinations
Semi	Semitrailer
Unk	Unknown
Occ	Occupant

Annual fatal involvements

Table 1-1
Fatal Truck Involvements by Year and Truck Configuration
TIFA 1994-1998

Accident Year	Strt truck No.	Strt/1 trailer No.	Bobtail No.	Trac/1 semi No.	Trac/2 trls No.	Other combs No.	Unk. No.	Total No.
1994	1405	191	117	2799	164	29	90	4795
1995	1346	160	133	2667	176	36	113	4631
1996	1377	192	164	2943	178	54	99	5007
1997	1397	202	134	3020	216	39	122	5130
1998	1420	210	135	3094	164	47	128	5198
Total	6945	955	683	14523	898	205	552	24761

Table 1-2
Fatal Truck Involvements by Year and All Truck Configurations
TIFA 1994-1998

Configuration	1994	1995	1996	1997	1998	Total
	No.	No.	No.	No.	No.	No.
Straight Only	1405	1346	1377	1397	1420	6945
Straight + Full trailer	38	34	48	41	61	222
Straight + Other	138	110	117	142	109	616
Straight + Other, gooseneck hitch	15	16	27	19	40	117
Wrecker + Tow	0	0	15	11	14	40
Straight + 2 Full trailers	1	0	0	0	0	1
Strt + Other (gooseneck) + A dolly + Other	0	0	1	0	0	1
Strt + Other (gooseneck) + Other	0	0	1	0	0	1
Bobtail Tractor	97	120	148	129	127	621
Tractor Carrying Cargo	20	13	16	5	8	62
Tractor + A dolly	0	2	0	0	0	2
Tractor and Semitrailer	2799	2667	2943	3020	3094	14523
Tractor + Other	19	29	27	15	18	108
Tractor + Semi + A dolly	0	2	0	1	1	4
Double with A dolly	95	97	113	135	86	526
Double, B train	6	2	0	5	4	17
Double with C dolly	1	0	0	0	0	1
Double with unknown dolly type	1	1	0	0	1	3
Tractor + Semi + Full	61	74	65	74	73	347
Tractor + Semi + Other	0	2	0	2	0	4
Triple with A dollies	2	1	3	3	1	10
Tractor + Semi + A dolly + Semi + Full	0	0	0	1	0	1
Tractor + Semi + 2 Full trailers	0	0	0	1	0	1
Tractor + Jeep + Semi + Jeep	2	0	2	2	1	7
Tractor + Semi + Jeep	2	0	0	0	0	2
Tractor towing Tractor	1	0	2	1	0	4
Tractor towing Straight Truck	0	0	1	2	0	3
Tractor towing Tractor/semitrailer	1	0	0	0	0	1
Tractor + 1 Saddle mount tractor	0	0	1	1	0	2
Tractor + 2 Saddle mount tractors	0	0	1	1	1	3
Tractor + 3 Saddle mount tractors	0	0	0	0	4	4
Tractor + Saddle mount + Cutaway chassis	0	0	0	0	2	2
Straight Truck towing Straight Truck	1	0	0	0	4	5
Straight Truck pulling Trac/semitrailer	0	2	0	0	0	2
Wrecker and Doubles	0	0	0	0	1	1
Unknown	90	113	99	122	128	552
Total	4795	4631	5007	5130	5198	24761

Table 1-3: Fatal Truck Involvements by Year and State, TIFA 1994-1998

State	1994	1995	1996	1997	1998	Total
	No.	No.	No.	No.	No.	No.
Alabama	155	151	142	167	153	768
Alaska	6	9	8	9	2	34
Arizona	79	78	79	75	99	410
Arkansas	88	98	101	122	107	516
California	377	379	387	393	374	1910
Colorado	59	59	57	81	54	310
Connecticut	27	25	32	24	32	140
Delaware	13	10	16	17	23	79
Dist of Columbia	2	3	6	3	2	16
Florida	290	287	284	295	330	1486
Georgia	203	193	221	221	202	1040
Hawaii	4	5	12	3	3	27
Idaho	42	29	41	33	24	169
Illinois	172	167	155	177	185	856
Indiana	135	160	164	164	183	806
Iowa	77	67	88	76	84	392
Kansas	50	63	64	87	82	346
Kentucky	101	104	98	118	103	524
Louisiana	110	87	86	132	149	564
Maine	21	22	14	22	22	101
Maryland	77	52	71	92	73	365
Massachusetts	45	34	36	39	39	193
Michigan	178	174	170	133	155	810
Minnesota	78	80	67	91	86	402
Mississippi	87	107	97	110	114	515
Missouri	133	96	153	139	165	686
Montana	18	28	21	22	19	108
Nebraska	44	43	49	49	43	228
Nevada	29	32	45	24	36	166
New Hampshire	8	7	15	14	12	56
New Jersey	74	91	88	83	67	403
New Mexico	36	42	58	51	51	238
New York	210	157	157	158	135	817
North Carolina	199	188	189	210	244	1030
North Dakota	8	7	9	13	8	45
Ohio	196	211	215	207	202	1031
Oklahoma	75	89	97	103	115	479
Oregon	64	70	63	77	67	341
Pennsylvania	210	187	196	181	187	961
Rhode Island	6	6	7	3	2	24
South Carolina	92	92	110	95	133	522
South Dakota	16	14	20	16	13	79
Tennessee	135	116	167	137	135	690
Texas	352	353	440	429	462	2036
Utah	28	27	36	51	53	195
Vermont	10	14	10	15	12	61
Virginia	134	97	126	124	118	599
Washington	57	68	70	84	72	351
West Virginia	60	47	62	55	41	265
Wisconsin	105	93	98	81	94	471
Wyoming	20	13	10	25	32	100
Total	4795	4631	5007	5130	5198	24761

Table 1-4: Fatal Truck Involvements by Year and State – STRAIGHT TRUCKS ONLY, TIFA 1994-1998

State	1994	1995	1996	1997	1998	Total
	No.	No.	No.	No.	No.	No.
Alabama	44	42	37	38	45	206
Alaska	1	2	1	2	2	8
Arizona	26	24	20	22	27	119
Arkansas	15	16	16	19	17	83
California	131	134	115	139	136	655
Colorado	24	26	16	23	17	106
Connecticut	12	6	13	12	17	60
Delaware	0	2	2	5	10	19
Dist of Columbia	0	3	3	2	1	9
Florida	107	116	112	112	138	585
Georgia	59	59	68	73	69	328
Hawaii	2	3	6	1	3	15
Idaho	17	7	13	14	15	66
Illinois	52	60	40	61	44	257
Indiana	39	47	41	39	43	209
Iowa	15	20	22	24	26	107
Kansas	12	17	20	24	13	86
Kentucky	46	36	45	50	42	219
Louisiana	34	24	25	33	43	159
Maine	5	6	9	7	10	37
Maryland	34	20	24	31	30	139
Massachusetts	24	17	15	17	12	85
Michigan	68	62	66	37	57	290
Minnesota	26	27	19	22	28	122
Mississippi *	0	0	2	0	0	2
Missouri	50	32	48	46	44	220
Montana	2	8	10	3	7	30
Nebraska	15	13	15	12	10	65
Nevada	6	6	15	6	9	42
New Hampshire	2	2	3	7	1	15
New Jersey	32	44	37	35	30	178
New Mexico	4	7	11	10	14	46
New York	111	96	78	82	74	441
North Carolina	67	70	68	63	77	345
North Dakota	5	2	2	5	2	16
Ohio	54	72	61	61	62	310
Oklahoma	25	21	35	31	30	142
Oregon	18	30	20	22	25	115
Pennsylvania	86	74	76	69	72	377
Rhode Island	4	3	5	3	2	17
South Carolina	19	19	37	24	30	129
South Dakota	12	2	4	3	4	25
Tennessee	40	32	42	47	38	199
Texas	90	86	128	109	128	541
Utah	12	6	14	14	18	64
Vermont	4	6	6	7	3	26
Virginia	56	33	47	49	41	226
Washington	29	18	26	39	32	144
West Virginia	23	12	17	21	14	87
Wisconsin	37	35	28	29	29	158
Wyoming	2	3	3	6	8	22
Total	1598	1508	1586	1610	1649	7951

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

* Mississippi does not provide police reports, so in most years all truck data are unknown.

Table 1-5: Fatal Truck Involvements by Year and State – TRACTOR-SEMITRAILERS ONLY, TIFA 1994-1998

State	1994	1995	1996	1997	1998	Total
	No.	No.	No.	No.	No.	No.
Alabama	104	101	95	121	100	521
Alaska	4	6	4	5	0	19
Arizona	45	46	51	40	63	245
Arkansas	65	78	77	95	81	396
California	172	173	179	172	168	864
Colorado	33	30	35	50	31	179
Connecticut	14	17	14	11	15	71
Delaware	13	8	14	10	13	58
Dist of Columbia	2	0	3	1	1	7
Florida	169	163	162	170	177	841
Georgia	134	120	141	136	120	651
Hawaii	2	2	4	2	0	10
Idaho	19	14	23	14	5	75
Illinois	113	93	110	104	133	553
Indiana	90	98	108	112	129	537
Iowa	59	43	65	47	58	272
Kansas	35	45	43	57	67	247
Kentucky	51	65	50	63	54	283
Louisiana	73	55	53	92	100	373
Maine	16	13	5	15	11	60
Maryland	40	28	46	57	38	209
Massachusetts	16	17	20	22	25	100
Michigan	94	93	80	82	87	436
Minnesota	52	47	45	67	56	267
Mississippi *	0	0	8	0	0	8
Missouri	77	58	97	90	109	431
Montana	14	13	10	17	10	64
Nebraska	26	29	34	36	31	156
Nevada	18	19	23	11	22	93
New Hampshire	6	5	12	7	11	41
New Jersey	38	45	45	41	36	205
New Mexico	27	33	42	35	35	172
New York	94	59	73	71	57	354
North Carolina	125	114	114	129	156	638
North Dakota	2	5	7	7	6	27
Ohio	130	126	148	140	125	669
Oklahoma	45	65	57	67	80	314
Oregon	33	34	36	40	36	179
Pennsylvania	122	102	107	103	104	538
Rhode Island	2	3	2	0	0	7
South Carolina	66	68	64	61	94	353
South Dakota	4	10	16	12	9	51
Tennessee	91	74	110	79	89	443
Texas	240	239	275	293	314	1361
Utah	13	16	15	31	23	98
Vermont	4	8	4	8	7	31
Virginia	72	60	71	71	74	348
Washington	21	38	34	32	25	150
West Virginia	37	31	38	33	27	166
Wisconsin	63	52	67	45	63	290
Wyoming	14	6	7	16	19	62
Total	2799	2667	2943	3020	3094	14523

* Mississippi does not provide police reports, so in most years all truck data are unknown.

Table 1-6: Fatal Truck Involvements by Year and State – DOUBLES ONLY, TIFA 1994-1998

State	1994	1995	1996	1997	1998	Total
	No.	No.	No.	No.	No.	No.
Alabama	3	4	3	2	0	12
Alaska	1	1	3	2	0	7
Arizona	7	6	5	9	6	33
Arkansas	1	1	2	3	4	11
California	56	51	59	61	56	283
Colorado	2	2	3	5	4	16
Connecticut	0	0	1	0	0	1
Delaware	0	0	0	1	0	1
Dist of Columbia	0	0	0	0	0	0
Florida	2	1	1	3	2	9
Georgia	3	2	3	3	3	14
Hawaii	0	0	0	0	0	0
Idaho	3	5	3	3	4	18
Illinois	3	8	1	3	5	20
Indiana	2	6	6	7	5	26
Iowa	3	3	0	1	0	7
Kansas	3	0	0	5	2	10
Kentucky	1	1	1	3	1	7
Louisiana	2	1	5	0	1	9
Maine	0	0	0	0	1	1
Maryland	0	0	0	3	0	3
Massachusetts	0	0	0	0	0	0
Michigan	14	11	13	14	5	57
Minnesota	0	2	1	1	0	4
Mississippi *	0	0	0	0	0	0
Missouri	2	3	3	2	6	16
Montana	2	7	1	2	2	14
Nebraska	3	0	0	0	1	4
Nevada	5	4	6	6	2	23
New Hampshire	0	0	0	0	0	0
New Jersey	2	1	0	2	1	6
New Mexico	1	1	4	5	1	12
New York	1	0	1	1	3	6
North Carolina	2	1	3	5	0	11
North Dakota	1	0	0	1	0	2
Ohio	7	4	1	4	4	20
Oklahoma	2	2	3	4	1	12
Oregon	5	4	5	8	3	25
Pennsylvania	1	3	8	5	4	21
Rhode Island	0	0	0	0	0	0
South Carolina	2	1	5	1	1	10
South Dakota	0	1	0	1	0	2
Tennessee	1	6	8	5	3	23
Texas	6	8	8	7	2	31
Utah	3	5	6	6	12	32
Vermont	0	0	0	0	0	0
Virginia	1	3	1	4	3	12
Washington	4	11	2	11	11	39
West Virginia	0	1	3	1	0	5
Wisconsin	3	2	0	3	0	8
Wyoming	4	3	0	3	5	15
Total	164	176	178	216	164	898

* Mississippi does not provide police reports, so in most years all truck data are unknown.

Annual fatalities

Table 1-7
Fatalities in Truck Involvements by Year and Person Type
TIFA 1994-1998

Vehicle/Person Type	1994		1995		1996		1997		1998	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<i>Truck</i>										
Driver	576	10.9	571	11.2	569	10.5	668	11.9	658	11.7
Passenger	124	2.3	97	1.9	90	1.7	106	1.9	119	2.1
Unk Occ Type	0	0.0	3	0.0	2	0.0	1	0.0	2	0.0
Truck Total	700	13.2	671	13.2	661	12.3	775	13.8	779	13.8
<i>Other Vehicle</i>										
Drivers	2943	55.5	2851	56.0	3055	56.6	3069	54.7	3119	55.4
Passengers	1162	21.9	1127	22.1	1197	22.2	1290	23.0	1255	22.3
Unk Occ Type	5	0.1	3	0.0	5	0.0	3	0.0	10	0.2
Other Vehicle Total	4110	77.5	3981	78.2	4257	78.9	4362	77.7	4384	77.9
<i>Non-Motorists</i>										
In Parked Vehicle	15	0.3	11	0.2	29	0.5	18	0.3	14	0.2
Pedestrian	391	7.4	345	6.7	378	6.8	375	6.6	386	6.7
Bicyclist	89	1.7	79	1.6	65	1.2	81	1.4	63	1.1
Other/unknown	1	0.0	4	0.2	5	0.3	4	0.2	3	0.2
Non-Motorist Total	496	9.4	439	8.6	477	8.8	478	8.5	466	8.3
Total	5306	100.0	5091	100.0	5395	100.0	5615	100.0	5629	100.0

Accident conditions

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

- October had the greatest number of fatal involvements with 498, while February had the fewest with 333.
- About two-thirds of fatal accident involvements occur in rural areas.
- About two-thirds of fatal accident involvements occur in daylight.
- 80.0% of fatal accident involvements occur on dry roads.
- 83.5% of fatal accident involvements occur in "normal" (i.e., no precipitation) weather conditions.
- 29.1% of fatal involvements occur on state highways, 26.7% on U.S. highways, and 24.5% on Interstate highways.
- In 11.0% of fatal involvements, the other vehicle crossed the center line of the road and struck the truck head on.

The following abbreviations are used in this chapter:

Abbreviation	Definition
Strt	Straight truck
Trac	Tractor
Trlrs	Trailers
Combs/Oth combs	Combinations/Other combinations
Semi	Semitrailer
Veh	Vehicle
Equip	Equipment
Opp	Opposite

Geographic distributions

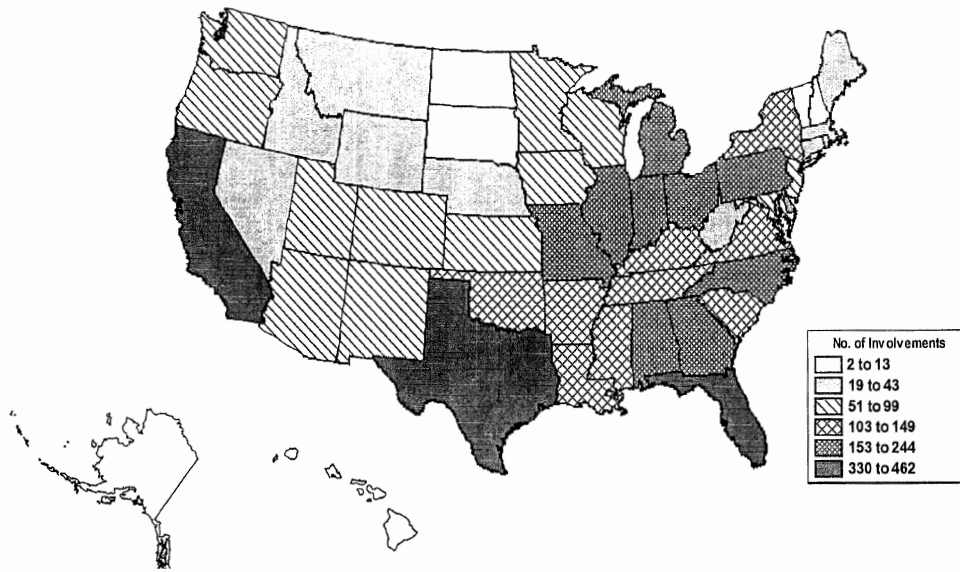


Figure 2-1: Fatal Truck Involvements by State, TIFA 1998

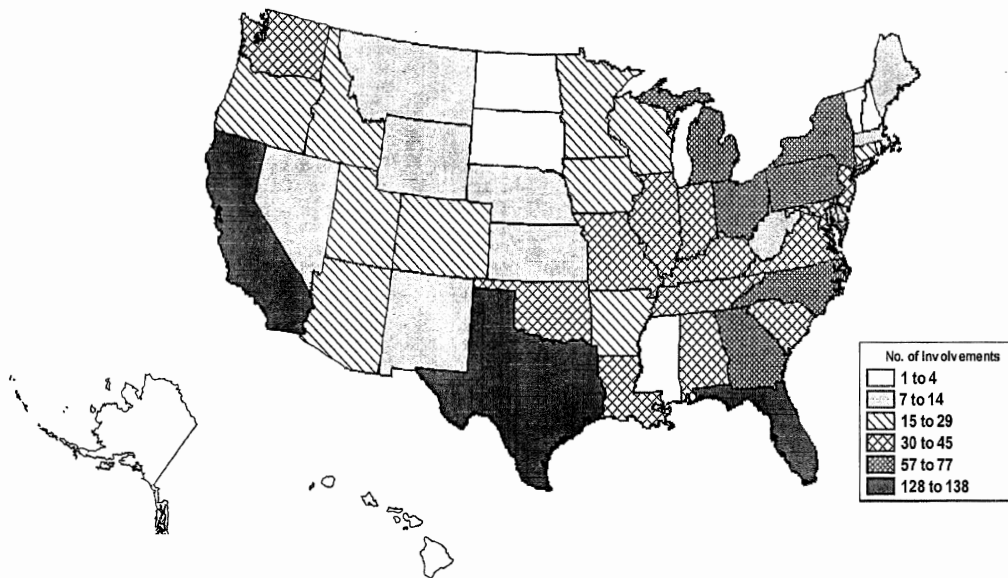


Figure 2-2: Fatal Truck Involvements by State – STRAIGHT TRUCKS ONLY, TIFA 1998

Note: Mississippi does not provide police reports, so most truck data are unknown.

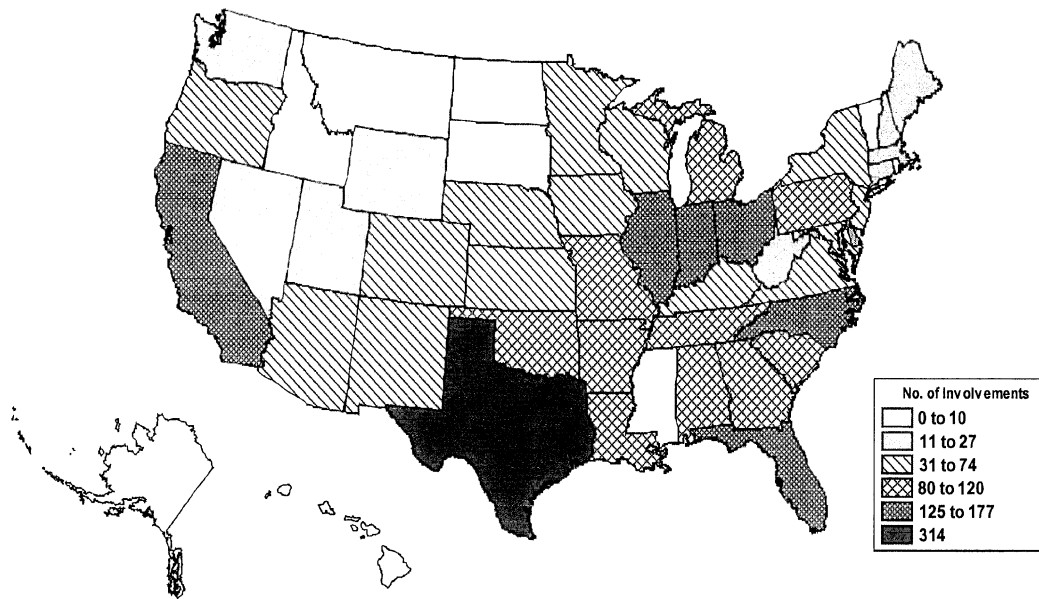


Figure 2-3: Fatal Truck Involvements by State – TRACTOR-SEMITRAILERS ONLY, TIFA 1998

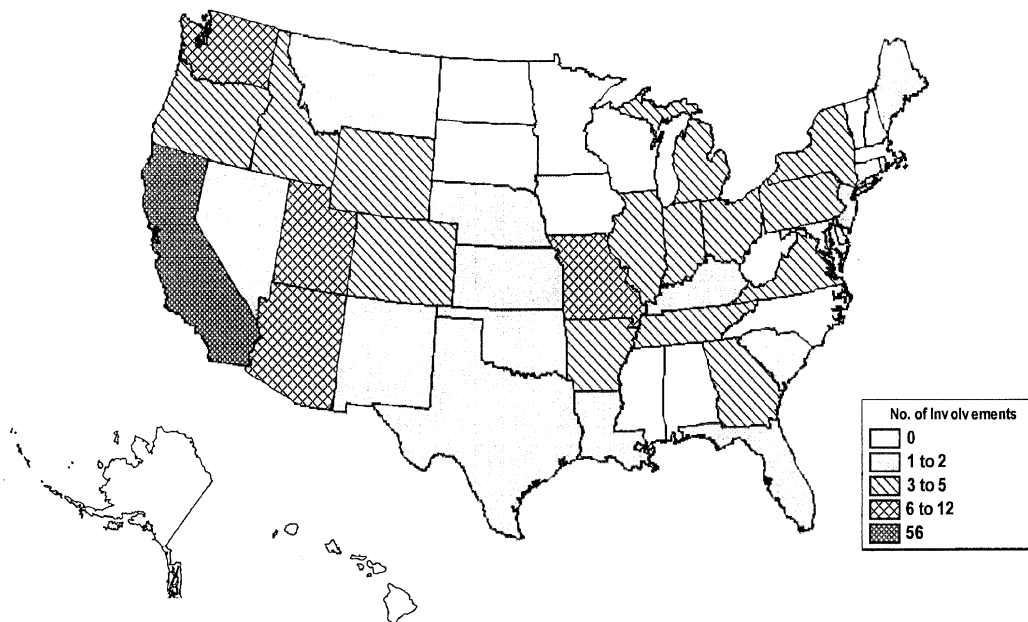


Figure 2-4: Fatal Truck Involvements by State – DOUBLES ONLY, TIFA 1998

Note: Mississippi does not provide police reports, so most truck data are unknown.

Table 2-1: Fatal Truck Involvements by State and Truck Configuration, TIFA 1998

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	3.1	1	0.5	8	5.9	100	3.2	0	0.0	0	0.0	0	0.0	153	2.9
Alaska	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	2.1	0	0.0	2	0.0
Arizona	20	1.4	6	2.9	0	0.0	63	2.0	6	3.7	3	6.4	1	0.8	99	1.9
Arkansas	13	0.9	2	1.0	5	3.7	81	2.6	4	2.4	2	4.3	0	0.0	107	2.1
California	107	7.5	25	11.9	13	9.6	168	5.4	56	34.1	5	10.6	0	0.0	374	7.2
Colorado	15	1.1	0	0.0	1	0.7	31	1.0	4	2.4	3	6.4	0	0.0	54	1.0
Connecticut	15	1.1	2	1.0	0	0.0	15	0.5	0	0.0	0	0.0	0	0.0	32	0.6
Delaware	9	0.6	1	0.5	0	0.0	13	0.4	0	0.0	0	0.0	0	0.0	23	0.4
Dist of Columbia	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Florida	122	8.6	14	6.7	11	8.1	177	5.7	2	1.2	4	8.5	0	0.0	330	6.3
Georgia	64	4.5	5	2.4	7	5.2	120	3.9	3	1.8	3	6.4	0	0.0	202	3.9
Hawaii	2	0.1	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Idaho	9	0.6	4	1.9	0	0.0	5	0.2	4	2.4	2	4.3	0	0.0	24	0.5
Illinois	38	2.7	6	2.9	2	1.5	133	4.3	5	3.0	0	0.0	1	0.8	185	3.6
Indiana	38	2.7	4	1.9	4	3.0	129	4.2	5	3.0	3	6.4	0	0.0	183	3.5
Iowa	23	1.6	3	1.4	0	0.0	58	1.9	0	0.0	0	0.0	0	0.0	84	1.6
Kansas	9	0.6	4	1.9	0	0.0	67	2.2	2	1.2	0	0.0	0	0.0	82	1.6
Kentucky	41	2.9	1	0.5	4	3.0	54	1.7	1	0.6	2	4.3	0	0.0	103	2.0
Louisiana	40	2.8	3	1.4	3	2.2	100	3.2	1	0.6	2	4.3	0	0.0	149	2.9
Maine	10	0.7	0	0.0	0	0.0	11	0.4	1	0.6	0	0.0	0	0.0	22	0.4
Maryland	29	2.0	1	0.5	2	1.5	38	1.2	0	0.0	0	0.0	3	2.3	73	1.4
Massachusetts	11	0.8	1	0.5	0	0.0	25	0.8	0	0.0	0	0.0	2	1.6	39	0.8
Michigan	43	3.0	14	6.7	5	3.7	87	2.8	5	3.0	1	2.1	0	0.0	155	3.0
Minnesota	22	1.5	6	2.9	2	1.5	56	1.8	0	0.0	0	0.0	0	0.0	86	1.7
Mississippi **	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	114	89.1	114	2.2
Missouri	36	2.5	8	3.8	6	4.4	109	3.5	6	3.7	0	0.0	0	0.0	165	3.2
Montana	6	0.4	1	0.5	0	0.0	10	0.3	2	1.2	0	0.0	0	0.0	19	0.4
Nebraska	8	0.6	2	1.0	1	0.7	31	1.0	1	0.6	0	0.0	0	0.0	43	0.8
Nevada	6	0.4	3	1.4	2	1.5	22	0.7	2	1.2	0	0.0	1	0.8	36	0.7
New Hampshire	0	0.0	1	0.5	0	0.0	11	0.4	0	0.0	0	0.0	0	0.0	12	0.2
New Jersey	29	2.0	1	0.5	0	0.0	36	1.2	1	0.6	0	0.0	0	0.0	67	1.3
New Mexico	14	1.0	0	0.0	0	0.0	35	1.1	1	0.6	0	0.0	1	0.8	51	1.0
New York	70	4.9	4	1.9	1	0.7	57	1.8	3	1.8	0	0.0	0	0.0	135	2.6
North Carolina	71	5.0	6	2.9	8	5.9	156	5.0	0	0.0	3	6.4	0	0.0	244	4.7
North Dakota	1	0.1	1	0.5	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	8	0.2
Ohio	59	4.2	3	1.4	8	5.9	125	4.0	4	2.4	0	0.0	3	2.3	202	3.9
Oklahoma	25	1.8	5	2.4	2	1.5	80	2.6	1	0.6	2	4.3	0	0.0	115	2.2
Oregon	16	1.1	9	4.3	3	2.2	36	1.2	3	1.8	0	0.0	0	0.0	67	1.3
Pennsylvania	70	4.9	2	1.0	5	3.7	104	3.4	4	2.4	0	0.0	2	1.6	187	3.6
Rhode Island	1	0.1	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
South Carolina	26	1.8	4	1.9	6	4.4	94	3.0	1	0.6	2	4.3	0	0.0	133	2.6
South Dakota	3	0.2	1	0.5	0	0.0	9	0.3	0	0.0	0	0.0	0	0.0	13	0.3
Tennessee	29	2.0	6	2.9	5	3.7	89	2.9	3	1.8	3	6.4	0	0.0	135	2.6
Texas	99	7.0	29	13.8	13	9.6	314	10.1	2	1.2	5	10.6	0	0.0	462	8.9
Utah	16	1.1	2	1.0	0	0.0	23	0.7	12	7.3	0	0.0	0	0.0	53	1.0
Vermont	2	0.1	1	0.5	2	1.5	7	0.2	0	0.0	0	0.0	0	0.0	12	0.2
Virginia	39	2.7	1	0.5	0	0.0	74	2.4	3	1.8	1	2.1	0	0.0	118	2.3
Washington	22	1.5	10	4.8	4	3.0	25	0.8	11	6.7	0	0.0	0	0.0	72	1.4
West Virginia	11	0.8	3	1.4	0	0.0	27	0.9	0	0.0	0	0.0	0	0.0	41	0.8
Wisconsin	28	2.0	1	0.5	2	1.5	63	2.0	0	0.0	0	0.0	0	0.0	94	1.8
Wyoming	7	0.5	1	0.5	0	0.0	19	0.6	5	3.0	0	0.0	0	0.0	32	0.6
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

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

** Mississippi does not provide police reports, so most truck data are unknown.

Temporal distributions

Table 2-2
Fatal Truck Involvements by Month and Truck Configuration
TIFA 1998

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	103	7.3	15	7.1	15	11.1	253	8.2	7	4.3	4	8.5	6	4.7	403	7.8
February	97	6.8	11	5.2	3	2.2	205	6.6	12	7.3	0	0.0	5	3.9	333	6.4
March	105	7.4	15	7.1	14	10.4	256	8.3	13	7.9	3	6.4	15	11.7	421	8.1
April	92	6.5	20	9.5	6	4.4	231	7.5	7	4.3	0	0.0	9	7.0	365	7.0
May	109	7.7	15	7.1	10	7.4	243	7.9	11	6.7	5	10.6	15	11.7	408	7.8
June	115	8.1	21	10.0	18	13.3	266	8.6	21	12.8	4	8.5	7	5.5	452	8.7
July	159	11.2	11	5.2	14	10.4	260	8.4	20	12.2	3	6.4	7	5.5	474	9.1
August	135	9.5	21	10.0	21	15.6	273	8.8	17	10.4	6	12.8	12	9.4	485	9.3
September	128	9.0	28	13.3	12	8.9	266	8.6	18	11.0	7	14.9	9	7.0	468	9.0
October	141	9.9	19	9.0	10	7.4	295	9.5	12	7.3	4	8.5	17	13.3	498	9.6
November	105	7.4	16	7.6	4	3.0	229	7.4	18	11.0	7	14.9	14	10.9	393	7.6
December	131	9.2	18	8.6	8	5.9	317	10.2	8	4.9	4	8.5	12	9.4	498	9.6
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 2-3
Fatal Truck Involvements by Day of Week and Truck Configuration
TIFA 1998

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	43	3.0	7	3.3	14	10.4	194	6.3	5	3.0	2	4.3	12	9.4	277	5.3
Monday	227	16.0	34	16.2	34	25.2	508	16.4	27	16.5	7	14.9	20	15.6	857	16.5
Tuesday	270	19.0	29	13.8	19	14.1	564	18.2	35	21.3	7	14.9	14	10.9	938	18.0
Wednesday	249	17.5	35	16.7	17	12.6	563	18.2	24	14.6	10	21.3	32	25.0	930	17.9
Thursday	247	17.4	36	17.1	16	11.9	475	15.4	27	16.5	5	10.6	20	15.6	826	15.9
Friday	258	18.2	43	20.5	22	16.3	505	16.3	25	15.2	11	23.4	16	12.5	880	16.9
Saturday	126	8.9	26	12.4	13	9.6	285	9.2	21	12.8	5	10.6	14	10.9	490	9.4
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 2-4
Fatal Truck Involvements by Day Type and Truck Configuration
TIFA 1998

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	1251	88.1	177	84.3	108	80.0	2615	84.5	138	84.1	40	85.1	102	79.7	4431	85.2
Weekend	169	11.9	33	15.7	27	20.0	479	15.5	26	15.9	7	14.9	26	20.3	767	14.8
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	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 1998**

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	14	1.0	5	2.4	1	0.7	87	2.8	5	3.0	0	0.0	4	3.1	116	2.2
1:00 AM	9	0.6	2	1.0	5	3.7	86	2.8	3	1.8	1	2.1	3	2.3	109	2.1
2:00 AM	16	1.1	2	1.0	5	3.7	77	2.5	7	4.3	0	0.0	2	1.6	109	2.1
3:00 AM	15	1.1	0	0.0	1	0.7	93	3.0	7	4.3	1	2.1	5	3.9	122	2.3
4:00 AM	16	1.1	2	1.0	1	0.7	94	3.0	13	7.9	0	0.0	2	1.6	128	2.5
5:00 AM	23	1.6	9	4.3	3	2.2	133	4.3	7	4.3	0	0.0	2	1.6	177	3.4
6:00 AM	62	4.4	8	3.8	7	5.2	166	5.4	3	1.8	0	0.0	7	5.5	253	4.9
7:00 AM	74	5.2	12	5.7	7	5.2	149	4.8	6	3.7	0	0.0	11	8.6	259	5.0
8:00 AM	75	5.3	19	9.0	9	6.7	162	5.2	7	4.3	2	4.3	12	9.4	286	5.5
9:00 AM	106	7.5	12	5.7	4	3.0	136	4.4	9	5.5	6	12.8	10	7.8	283	5.4
10:00 AM	120	8.5	12	5.7	10	7.4	164	5.3	4	2.4	4	8.5	8	6.3	322	6.2
11:00 AM	134	9.4	7	3.3	6	4.4	171	5.5	9	5.5	4	8.5	2	1.6	333	6.4
Noon	116	8.2	15	7.1	8	5.9	185	6.0	11	6.7	6	12.8	7	5.5	348	6.7
1:00 PM	104	7.3	9	4.3	5	3.7	171	5.5	10	6.1	6	12.8	8	6.3	313	6.0
2:00 PM	130	9.2	19	9.0	8	5.9	155	5.0	15	9.1	2	4.3	8	6.3	337	6.5
3:00 PM	102	7.2	23	11.0	14	10.4	138	4.5	4	2.4	4	8.5	8	6.3	293	5.6
4:00 PM	95	6.7	16	7.6	7	5.2	185	6.0	8	4.9	2	4.3	5	3.9	318	6.1
5:00 PM	53	3.7	8	3.8	3	2.2	174	5.6	2	1.2	1	2.1	7	5.5	248	4.8
6:00 PM	46	3.2	9	4.3	9	6.7	106	3.4	5	3.0	3	6.4	9	7.0	187	3.6
7:00 PM	30	2.1	5	2.4	8	5.9	106	3.4	10	6.1	1	2.1	3	2.3	163	3.1
8:00 PM	22	1.5	7	3.3	4	3.0	93	3.0	6	3.7	2	4.3	3	2.3	137	2.6
9:00 PM	14	1.0	1	0.5	3	2.2	79	2.6	4	2.4	1	2.1	2	1.6	104	2.0
10:00 PM	14	1.0	3	1.4	6	4.4	98	3.2	2	1.2	0	0.0	0	0.0	123	2.4
11:00 PM	28	2.0	5	2.4	1	0.7	82	2.7	7	4.3	1	2.1	0	0.0	124	2.4
Unknown	2	0.1	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	6	0.1
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 2-6
Fatal Truck Involvements by Time of Accident and Day Type
TIFA 1998

Time of Accident	Work week		Weekend		Total	
	No.	Pct.	No.	Pct.	No.	Pct.
Midnight	78	1.8	38	5.0	116	2.2
1:00 AM	84	1.9	25	3.3	109	2.1
2:00 AM	82	1.9	27	3.5	109	2.1
3:00 AM	94	2.1	28	3.7	122	2.3
4:00 AM	105	2.4	23	3.0	128	2.5
5:00 AM	140	3.2	37	4.8	177	3.4
6:00 AM	211	4.8	42	5.5	253	4.9
7:00 AM	209	4.7	50	6.5	259	5.0
8:00 AM	251	5.7	35	4.6	286	5.5
9:00 AM	257	5.8	26	3.4	283	5.4
10:00 AM	289	6.5	33	4.3	322	6.2
11:00 AM	298	6.7	35	4.6	333	6.4
Noon	310	7.0	38	5.0	348	6.7
1:00 PM	292	6.6	21	2.7	313	6.0
2:00 PM	301	6.8	36	4.7	337	6.5
3:00 PM	267	6.0	26	3.4	293	5.6
4:00 PM	281	6.3	37	4.8	318	6.1
5:00 PM	199	4.5	49	6.4	248	4.8
6:00 PM	157	3.5	30	3.9	187	3.6
7:00 PM	140	3.2	23	3.0	163	3.1
8:00 PM	105	2.4	32	4.2	137	2.6
9:00 PM	83	1.9	21	2.7	104	2.0
10:00 PM	95	2.1	28	3.7	123	2.4
11:00 PM	97	2.2	27	3.5	124	2.4
Unknown	6	0.1	0	0.0	6	0.1
Total	4431	100.0	767	100.0	5198	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 1998

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	597	42.0	71	33.8	56	41.5	925	29.9	42	25.6	19	40.4	4	3.1	1714	33.0
Rural	815	57.4	138	65.7	79	58.5	2156	69.7	122	74.4	28	59.6	119	93.0	3457	66.5
Unknown	8	0.6	1	0.5	0	0.0	13	0.4	0	0.0	0	0.0	5	3.9	27	0.5
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

**Table 2-8
Fatal Truck Involvements by Light Condition and Truck Configuration
TIFA 1998**

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	1132	79.7	158	75.2	95	70.4	1846	59.7	90	54.9	39	83.0	91	71.1	3451	66.4
Dark	170	12.0	28	13.3	25	18.5	859	27.8	52	31.7	5	10.6	26	20.3	1165	22.4
Dark but Lighted	66	4.6	10	4.8	13	9.6	231	7.5	14	8.5	3	6.4	5	3.9	342	6.6
Dawn	32	2.3	9	4.3	2	1.5	112	3.6	4	2.4	0	0.0	0	0.0	159	3.1
Dusk	19	1.3	4	1.9	0	0.0	42	1.4	4	2.4	0	0.0	6	4.7	75	1.4
Unknown	1	0.1	1	0.5	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	6	0.1
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

**Table 2-9
Fatal Truck Involvements by Roadway Surface Condition and Truck Configuration
TIFA 1998**

Roadway Surface Condition	Strt truck		Strt/1 trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Dry	1147	80.8	171	81.4	110	81.5	2448	79.1	133	81.1	41	87.2	110	85.9	4160	80.0
Wet	233	16.4	32	15.2	22	16.3	524	16.9	22	13.4	4	8.5	17	13.3	854	16.4
Snow or Slush	16	1.1	2	1.0	0	0.0	35	1.1	5	3.0	0	0.0	0	0.0	58	1.1
Ice	18	1.3	4	1.9	2	1.5	79	2.6	4	2.4	2	4.3	0	0.0	109	2.1
Sand Dirt Oil	1	0.1	0	0.0	1	0.7	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
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	2	0.1	1	0.5	0	0.0	4	0.1	0	0.0	0	0.0	1	0.8	8	0.2
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

**Table 2-10
Fatal Truck Involvements by Weather Condition and Truck Configuration
TIFA 1998**

Weather Condition	Strt truck		Strt/1 trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Normal	1199	84.4	180	85.7	115	85.2	2547	82.3	144	87.8	43	91.5	113	88.3	4341	83.5
Rain	153	10.8	19	9.0	15	11.1	318	10.3	8	4.9	3	6.4	10	7.8	526	10.1
Sleet	9	0.6	0	0.0	1	0.7	13	0.4	3	1.8	0	0.0	0	0.0	26	0.5
Snow	22	1.5	4	1.9	0	0.0	70	2.3	4	2.4	1	2.1	0	0.0	101	1.9
Fog	28	2.0	4	1.9	2	1.5	108	3.5	4	2.4	0	0.0	4	3.1	150	2.9
Rain & Fog	2	0.1	2	1.0	0	0.0	13	0.4	1	0.6	0	0.0	0	0.0	18	0.3
Other	7	0.5	0	0.0	2	1.5	17	0.5	0	0.0	0	0.0	0	0.0	26	0.5
Unknown	0	0.0	1	0.5	0	0.0	8	0.3	0	0.0	0	0.0	1	0.8	10	0.2
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Roadway distributions

Table 2-11
Fatal Truck Involvements by Roadway Function Class and Truck Configuration
TIFA 1998

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	87	14.6	23	32.4	14	25.0	383	41.4	18	42.9	5	26.3	2	50.0	532	31.0
Freeway/expressway	56	9.4	3	4.2	2	3.6	77	8.3	5	11.9	1	5.3	0	0.0	144	8.4
Other principal artery	212	35.5	25	35.2	19	33.9	284	30.7	11	26.2	11	57.9	0	0.0	562	32.8
Minor artery	132	22.1	16	22.5	15	26.8	107	11.6	3	7.1	1	5.3	0	0.0	274	16.0
Collector	21	3.5	0	0.0	2	3.6	15	1.6	0	0.0	0	0.0	0	0.0	38	2.2
Local Street	81	13.6	3	4.2	4	7.1	57	6.2	5	11.9	1	5.3	2	50.0	153	8.9
Unknown urban	8	1.3	1	1.4	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0	11	0.6
Total	597	100.0	71	100.0	56	100.0	925	100.0	42	100.0	19	100.0	4	100.0	1714	100.0
<i>Rural</i>																
Interstate	68	8.3	15	10.9	10	12.7	585	27.1	39	32.0	10	35.7	19	16.0	746	21.6
Other principal artery	206	25.3	52	37.7	28	35.4	801	37.2	43	35.2	4	14.3	46	38.7	1180	34.1
Minor artery	178	21.8	32	23.2	16	20.3	411	19.1	14	11.5	5	17.9	0	0.0	656	19.0
Major collector	204	25.0	26	18.8	22	27.8	243	11.3	22	18.0	4	14.3	5	4.2	526	15.2
Minor collector	43	5.3	7	5.1	0	0.0	42	1.9	1	0.8	0	0.0	38	31.9	131	3.8
Local road	104	12.8	5	3.6	2	2.5	58	2.7	2	1.6	3	10.7	11	9.2	185	5.4
Unknown rural	12	1.5	1	0.7	1	1.3	16	0.7	1	0.8	2	7.1	0	0.0	33	1.0
Total	815	100.0	138	100.0	79	100.0	2156	100.0	122	100.0	28	100.0	119	100.0	3457	100.0

Table 2-12
Fatal Truck Involvements by Route Signing and Truck Configuration
TIFA 1998

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	154	10.8	37	17.6	25	18.5	966	31.2	58	35.4	15	31.9	19	14.8	1274	24.5
US Highway	313	22.0	51	24.3	37	27.4	905	29.3	28	17.1	7	14.9	48	37.5	1389	26.7
State Highway	469	33.0	63	30.0	43	31.9	839	27.1	43	26.2	13	27.7	43	33.6	1513	29.1
County Road	197	13.9	26	12.4	8	5.9	169	5.5	23	14.0	7	14.9	11	8.6	441	8.5
Township	47	3.3	1	0.5	2	1.5	16	0.5	0	0.0	0	0.0	0	0.0	66	1.3
Municipality	173	12.2	20	9.5	14	10.4	122	3.9	11	6.7	5	10.6	3	2.3	348	6.7
Frontage Rd	7	0.5	2	1.0	0	0.0	15	0.5	0	0.0	0	0.0	0	0.0	24	0.5
Other	54	3.8	9	4.3	6	4.4	51	1.6	1	0.6	0	0.0	2	1.6	123	2.4
Unknown	6	0.4	1	0.5	0	0.0	11	0.4	0	0.0	0	0.0	2	1.6	20	0.4
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 2-13
Fatal Truck Involvements by Relation to Junction and Truck Configuration
TIFA 1998

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	857	60.4	129	61.4	82	60.7	2002	64.7	123	75.0	31	66.0	68	53.1	3292	63.3
Intersection	430	30.3	55	26.2	25	18.5	704	22.8	27	16.5	12	25.5	4	3.1	1257	24.2
Intersection related	49	3.5	11	5.2	8	5.9	86	2.8	3	1.8	2	4.3	2	1.6	161	3.1
Driveway, alley, etc	38	2.7	4	1.9	8	5.9	98	3.2	1	0.6	0	0.0	2	1.6	151	2.9
Entrance/exit ramp	4	0.3	0	0.0	0	0.0	35	1.1	3	1.8	0	0.0	0	0.0	42	0.8
Rail grade crossing	11	0.8	2	1.0	0	0.0	11	0.4	1	0.6	0	0.0	1	0.8	26	0.5
In crossover	5	0.4	1	0.5	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	12	0.2
Unknown	1	0.1	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	4	0.1
<i>Interchange Area</i>																
Intersection	5	0.4	0	0.0	1	0.7	14	0.5	0	0.0	0	0.0	43	33.6	63	1.2
Intersection related	0	0.0	0	0.0	0	0.0	9	0.3	0	0.0	0	0.0	3	2.3	12	0.2
Driveway access	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	1.6	2	0.0
Entrance/exit ramp	10	0.7	2	1.0	3	2.2	48	1.6	0	0.0	0	0.0	3	2.3	66	1.3
In crossover	3	0.2	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Other location	6	0.4	4	1.9	6	4.4	63	2.0	4	2.4	2	4.3	0	0.0	85	1.6
Unknown	0	0.0	1	0.5	2	1.5	10	0.3	2	1.2	0	0.0	0	0.0	15	0.3
<i>Unknown</i>	1	0.1	1	0.5	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 2-14
Fatal Truck Involvements by Number of Travel Lanes and Truck Configuration
TIFA 1998

No. 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	4	0.3	1	0.5	1	0.7	11	0.4	1	0.6	0	0.0	0	0.0	18	0.3
2	1070	75.4	168	80.0	102	75.6	2315	74.8	125	76.2	34	72.3	96	75.0	3910	75.2
3	111	7.8	15	7.1	13	9.6	242	7.8	14	8.5	4	8.5	0	0.0	399	7.7
4	160	11.3	20	9.5	12	8.9	381	12.3	18	11.0	7	14.9	30	23.4	628	12.1
5	19	1.3	4	1.9	3	2.2	44	1.4	4	2.4	0	0.0	0	0.0	74	1.4
6	22	1.5	0	0.0	1	0.7	35	1.1	0	0.0	0	0.0	0	0.0	58	1.1
7	7	0.5	0	0.0	0	0.0	7	0.2	1	0.6	2	4.3	0	0.0	17	0.3
9	27	1.9	2	1.0	3	2.2	59	1.9	1	0.6	0	0.0	2	1.6	94	1.8
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 2-15
Fatal Truck Involvements by Trafficway Flow and Truck Configuration
TIFA 1998

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	965	68.0	143	68.1	88	65.2	1560	50.4	87	53.0	24	51.1	94	73.4	2961	57.0
Median-No Barrier	313	22.0	51	24.3	33	24.4	1091	35.3	47	28.7	20	42.6	31	24.2	1586	30.5
Median w/Barrier	126	8.9	14	6.7	13	9.6	408	13.2	29	17.7	3	6.4	1	0.8	594	11.4
One Way Traffic	8	0.6	1	0.5	1	0.7	17	0.5	0	0.0	0	0.0	0	0.0	27	0.5
Unknown	8	0.6	1	0.5	0	0.0	18	0.6	1	0.6	0	0.0	2	1.6	30	0.6
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 2-16
Fatal Truck Involvements by Speed Limit and Truck Configuration
TIFA 1998

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.
0	3	0.2	1	0.5	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	5	0.1
10	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
15	3	0.2	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	5	0.1
20	3	0.2	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	5	0.1
25	61	4.3	2	1.0	2	1.5	28	0.9	2	1.2	0	0.0	3	2.3	98	1.9
30	72	5.1	4	1.9	5	3.7	65	2.1	2	1.2	1	2.1	3	2.3	152	2.9
35	102	7.2	6	2.9	10	7.4	111	3.6	2	1.2	1	2.1	3	2.3	235	4.5
40	81	5.7	13	6.2	3	2.2	91	2.9	3	1.8	2	4.3	1	0.8	194	3.7
45	187	13.2	25	11.9	25	18.5	278	9.0	9	5.5	6	12.8	12	9.4	542	10.4
50	73	5.1	12	5.7	6	4.4	131	4.2	11	6.7	4	8.5	3	2.3	240	4.6
55	566	39.9	79	37.6	50	37.0	1210	39.1	63	38.4	19	40.4	75	58.6	2062	39.7
60	34	2.4	9	4.3	14	10.4	145	4.7	11	6.7	1	2.1	3	2.3	217	4.2
65	137	9.6	29	13.8	12	8.9	570	18.4	41	25.0	3	6.4	8	6.3	800	15.4
70	56	3.9	24	11.4	7	5.2	345	11.2	10	6.1	6	12.8	15	11.7	463	8.9
75	11	0.8	3	1.4	0	0.0	81	2.6	9	5.5	3	6.4	1	0.8	108	2.1
Unknown	30	2.1	3	1.4	1	0.7	34	1.1	1	0.6	1	2.1	1	0.8	71	1.4
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Accident description

Table 2-17
Fatal Truck Involvements by Accident Type and Truck Configuration
TIFA 1998

Accident Type	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>Single Vehicle</i>																
Ran off road	126	8.9	15	7.1	14	10.4	222	7.2	10	6.1	7	14.9	0	0.0	394	7.6
Hit object in road	140	9.9	12	5.7	15	11.1	218	7.0	11	6.7	5	10.6	0	0.0	401	7.7
<i>Same direction, same trafficway</i>																
Rearend, truck striking	53	3.7	17	8.1	5	3.7	224	7.2	16	9.8	0	0.0	1	0.8	316	6.1
Rearend, truck struck	117	8.2	13	6.2	11	8.1	279	9.0	17	10.4	5	10.6	2	1.6	444	8.5
Sideswipe, in other's lane	9	0.6	0	0.0	2	1.5	30	1.0	3	1.8	1	2.1	0	0.0	45	0.9
Sideswipe, in truck's lane	12	0.8	0	0.0	0	0.0	76	2.5	7	4.3	0	0.0	0	0.0	95	1.8
<i>Opposite direction, same trafficway</i>																
Head-on, in other's lane	38	2.7	7	3.3	12	8.9	48	1.6	4	2.4	0	0.0	0	0.0	109	2.1
Head-on, in truck's lane	179	12.6	27	12.9	8	5.9	331	10.7	21	12.8	4	8.5	0	0.0	570	11.0
Sideswipe, in other's lane	16	1.1	1	0.5	8	5.9	24	0.8	3	1.8	0	0.0	0	0.0	52	1.0
Sideswipe, in truck's lane	77	5.4	19	9.0	8	5.9	238	7.7	12	7.3	5	10.6	0	0.0	359	6.9
<i>Change trafficway, one vehicle turning</i>																
Truck turn across path	57	4.0	6	2.9	2	1.5	115	3.7	1	0.6	0	0.0	0	0.0	181	3.5
Other turn across path	95	6.7	8	3.8	10	7.4	187	6.0	8	4.9	4	8.5	0	0.0	312	6.0
<i>Intersecting paths, both going straight</i>																
Truck into side of other	221	15.6	25	11.9	11	8.1	266	8.6	13	7.9	5	10.6	0	0.0	541	10.4
Other into side of truck	46	3.2	16	7.6	5	3.7	169	5.5	7	4.3	1	2.1	0	0.0	244	4.7
<i>Other accident types</i>																
Truck backed into other	16	1.1	2	1.0	2	1.5	32	1.0	0	0.0	0	0.0	0	0.0	52	1.0
Other backed into truck	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Untripped roll	29	2.0	2	1.0	0	0.0	64	2.1	1	0.6	0	0.0	0	0.0	96	1.8
Other	177	12.5	36	17.1	22	16.3	545	17.6	27	16.5	10	21.3	0	0.0	817	15.7
Unknown	10	0.7	4	1.9	0	0.0	26	0.8	3	1.8	0	0.0	125	97.7	168	3.2
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 2-18
Fatal Truck Involvements by First Harmful Event and Truck Configuration
TIFA 1998

First Harmful Event	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<i>Noncollision Event</i>																
Overturn	62	4.4	8	3.8	8	5.9	123	4.0	4	2.4	0	0.0	5	3.9	210	4.0
Immersion	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Fell from vehicle	8	0.6	0	0.0	4	3.0	4	0.1	1	0.6	0	0.0	0	0.0	17	0.3
Injured in vehicle	1	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Other noncollision	2	0.1	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	6	0.1
Thrown or falling object	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
<i>Collision With Object Not Fixed</i>																
Pedestrian	115	8.1	5	2.4	13	9.6	182	5.9	8	4.9	9	19.1	3	2.3	335	6.4
Pedalcycle	18	1.3	2	1.0	1	0.7	24	0.8	1	0.6	1	2.1	0	0.0	47	0.9
Railway train	11	0.8	2	1.0	0	0.0	9	0.3	1	0.6	0	0.0	1	0.8	24	0.5
Animal	1	0.1	1	0.5	0	0.0	10	0.3	1	0.6	0	0.0	0	0.0	13	0.3
Motor vehicle in transport	1052	74.1	167	79.5	95	70.4	2321	75.0	132	80.5	32	68.1	110	85.9	3909	75.2
Veh. in transport - other roadway	28	2.0	9	4.3	4	3.0	166	5.4	2	1.2	0	0.0	0	0.0	209	4.0
Parked motor vehicle	12	0.8	0	0.0	0	0.0	23	0.7	0	0.0	0	0.0	0	0.0	35	0.7
Other type nonmotorist	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Other object - not fixed	2	0.1	2	1.0	0	0.0	13	0.4	1	0.6	0	0.0	0	0.0	18	0.3
Transport device used as equip	3	0.2	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	6	0.1
Ridden animal/conveyance	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
<i>Collision With Fixed Object</i>																
Boulder	2	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Building	2	0.1	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Impact attenuator	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	1	2.1	0	0.0	2	0.0
Bridge pier or abutment	0	0.0	0	0.0	1	0.7	9	0.3	0	0.0	0	0.0	0	0.0	10	0.2
Bridge parapet end	0	0.0	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Bridge rail	3	0.2	0	0.0	0	0.0	12	0.4	2	1.2	1	2.1	0	0.0	18	0.3
Guardrail	18	1.3	5	2.4	3	2.2	65	2.1	5	3.0	1	2.1	0	0.0	97	1.9
Concrete traffic barrier	6	0.4	1	0.5	0	0.0	34	1.1	3	1.8	0	0.0	0	0.0	44	0.8
Other longitudinal barrier type	0	0.0	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Highway/traffic sign post	3	0.2	1	0.5	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	9	0.2
Luminaire/light support	1	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Utility pole	7	0.5	0	0.0	1	0.7	2	0.1	0	0.0	0	0.0	0	0.0	10	0.2
Other post, pole or supports	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Culvert	4	0.3	0	0.0	0	0.0	1	0.0	1	0.6	0	0.0	0	0.0	6	0.1
Curb	4	0.3	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	1	0.8	8	0.2
Ditch	6	0.4	0	0.0	1	0.7	11	0.4	0	0.0	1	2.1	2	1.6	21	0.4
Embankment - earth	6	0.4	0	0.0	0	0.0	10	0.3	0	0.0	0	0.0	0	0.0	16	0.3
Embankment - rock,stone,etc	3	0.2	1	0.5	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	10	0.2
Embankment - type unknown	3	0.2	1	0.5	1	0.7	6	0.2	0	0.0	0	0.0	0	0.0	11	0.2
Fence	10	0.7	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	11	0.2
Wall	2	0.1	0	0.0	2	1.5	3	0.1	0	0.0	0	0.0	0	0.0	7	0.1
Shrubbery	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Tree	17	1.2	2	1.0	0	0.0	16	0.5	1	0.6	1	2.1	6	4.7	43	0.8
Other fixed object	4	0.3	3	1.4	0	0.0	9	0.3	1	0.6	0	0.0	0	0.0	17	0.3
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 2-19
Fatal Truck Involvements by Vehicle Role in Accident and Truck Configuration
TIFA 1998

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	56	3.9	3	1.4	10	7.4	75	2.4	1	0.6	0	0.0	1	0.8	146	2.8
Striking	980	69.0	138	65.7	96	71.1	1998	64.6	111	67.7	34	72.3	100	78.1	3457	66.5
Struck	353	24.9	63	30.0	24	17.8	925	29.9	42	25.6	13	27.7	25	19.5	1445	27.8
Both	25	1.8	4	1.9	5	3.7	83	2.7	9	5.5	0	0.0	2	1.6	128	2.5
Unknown	6	0.4	2	1.0	0	0.0	13	0.4	1	0.6	0	0.0	0	0.0	22	0.4
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 2-20
Fatal Truck Involvements by Manner of Collision and Truck Configuration
TIFA 1998

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	340	23.9	34	16.2	36	26.7	607	19.6	30	18.3	15	31.9	18	14.1	1080	20.8
Rear-end	199	14.0	38	18.1	18	13.3	586	18.9	40	24.4	9	19.1	12	9.4	902	17.4
Head-on	324	22.8	58	27.6	30	22.2	713	23.0	34	20.7	11	23.4	48	37.5	1218	23.4
Angle	504	35.5	63	30.0	45	33.3	999	32.3	46	28.0	11	23.4	48	37.5	1716	33.0
Sideswipe: Same direction	20	1.4	5	2.4	3	2.2	99	3.2	10	6.1	0	0.0	1	0.8	138	2.7
Sideswipe: Opp direction	33	2.3	12	5.7	3	2.2	71	2.3	4	2.4	1	2.1	0	0.0	124	2.4
Unknown	0	0.0	0	0.0	0	0.0	19	0.6	0	0.0	0	0.0	1	0.8	20	0.4
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 2-21
Fatal Truck Involvements by Rollover Status and Truck Configuration
TIFA 1998

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	1195	84.2	170	81.0	118	87.4	2689	86.9	144	87.8	43	91.5	123	96.1	4482	86.2
First Event	63	4.4	5	2.4	7	5.2	121	3.9	2	1.2	0	0.0	5	3.9	203	3.9
Subsequent Event	162	11.4	35	16.7	10	7.4	284	9.2	18	11.0	4	8.5	0	0.0	513	9.9
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 2-22
Fatal Truck Involvements by Jackknife Status and Truck Configuration
TIFA 1998

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	1420	100.0	203	96.7	135	100.0	2843	91.9	139	84.8	46	97.9	127	99.2	4913	94.5
First Event	0	0.0	2	1.0	0	0.0	78	2.5	6	3.7	1	2.1	0	0.0	87	1.7
Subsequent Event	0	0.0	5	2.4	0	0.0	173	5.6	19	11.6	0	0.0	1	0.8	198	3.8
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 2-23
Fatal Truck Involvements by Fire Occurrence and Truck Configuration
TIFA 1998

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	1388	97.7	202	96.2	131	97.0	2864	92.6	152	92.7	45	95.7	126	98.4	4908	94.4
Fire in Vehicle	32	2.3	8	3.8	4	3.0	230	7.4	12	7.3	2	4.3	2	1.6	290	5.6
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 2-24
Fatal Truck Involvements by Cargo Spillage and Truck Configuration
TIFA 1998

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	1187	83.6	156	74.3	7	5.2	2524	81.6	123	75.0	45	95.7	0	0.0	4042	77.8
Nonhazarous	181	12.7	44	21.0	1	0.7	435	14.1	30	18.3	2	4.3	0	0.0	693	13.3
Hazardous	16	1.1	6	2.9	0	0.0	56	1.8	7	4.3	0	0.0	0	0.0	85	1.6
Unknown	36	2.5	4	1.9	127	94.1	79	2.6	4	2.4	0	0.0	128	100.0	378	7.3
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Vehicle

This section provides statistics that describe the physical configuration of trucks involved in a fatal accident in 1998. 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 5,198 trucks involved in a fatal accident in 1998, there were 3,094 tractor-semitrailers, 1,420 straight trucks with no trailer, 210 straight trucks pulling a trailer, 135 bobtail tractors, and 164 tractors pulling two trailers.

- Straight trucks with no trailer represented 27.3% 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.
- 26.3% of the straight trucks had dump bodies. The next most common straight truck cargo body was a van body, with 21.1%.
- 33.5% of the trucks were empty, 19.6% were carrying general freight, and 13.1% were carrying solids in bulk (gravel, soil, etc.) at the time of the accident.
- 9 trucks were longer than 100 feet; 44 weighed more than 100,000 pounds.
- 75.7% of the trucks involved in a fatal accident were Class 8, the heaviest Gross Vehicle Weight Rating (GVWR) class.
- 47.3% of the trucks were operated by interstate for-hire carriers, 20.6% by interstate private carriers, and 16.9% by intrastate private carriers.
- 36.9% of the trucks were on local trips (within 50 miles of base) when involved in the fatal accident.

The following abbreviations are used in this chapter:

Abbreviation	Definition
Strt	Straight truck
Trac	Tractor
Trlrs	Trailers
Oth combs	Other combinations
Semi	Semitrailer
Veh	Vehicle
Equip	Equipment
Piggybk	Piggyback

**Table 3-1
Fatal Truck Involvements by Truck Configuration
TIFA 1998**

Configuration	No.	Pct.
<i>Straight Trucks</i>		
Straight Truck Only	1420	27.3
<i>Straight Truck, 1 Trailer</i>		
Straight + Full Trailer	61	1.2
Straight + Other	109	2.1
Straight + Other, Gooseneck Hitch	40	0.8
<i>Subtotal</i>	210	4.0
<i>Other Straight Combinations</i>		
Wrecker + Tow	14	0.3
Straight Truck Towing Straight Truck	4	0.1
Wrecker and Doubles	1	0.0
<i>Subtotal</i>	19	0.4
<i>Total Straight Trucks</i>	1649	31.7
<i>Tractor Combinations</i>		
<i>Tractor, No Trailers</i>		
Bobtail Tractor	127	2.4
Tractor Carrying Cargo	8	0.0
<i>Subtotal</i>	135	2.6
<i>Tractor, 1 Trailer</i>		
Tractor and Semitrailer	3094	59.5
Tractor + Other	18	0.3
<i>Subtotal</i>	3112	59.9
<i>Tractor, 2 Trailers</i>		
Double with A Dolly	86	1.7
Double, B Train	4	0.1
Double with Unknown Dolly Type	1	0.0
Tractor + Semi + Full	73	0.1
<i>Subtotal</i>	164	3.2
<i>Tractor, 3 Trailers</i>		
Triple with A Dollies	1	0.0
<i>Subtotal</i>	1	0.0
<i>Other Tractor Combinations</i>		
Tractor + Semi + A dolly	1	0.0
Tractor + Jeep + Semi + Jeep	1	0.0
Tractor + 2 Saddle-mount Tractors	1	0.0
Tractor + 3 Saddle-mount Tractors	4	0.1
Tractor + Saddle-mount + Cutaway Chassis	2	0.0
<i>Subtotal</i>	9	0.2
<i>Total Tractors</i>	3421	65.8
<i>Unknown</i>	128	2.5
Grand Total	5198	100.0

Table 3-2
Fatal Truck Involvements by Cargo Body Style and Truck Configuration
TIFA 1998

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	135	100.0	0	0.0	0	0.0	7	14.9	0	0.0	142	2.7
Van	300	21.1	14	6.7	0	0.0	1241	40.1	72	43.9	2	4.3	0	0.0	1629	31.3
Open top van	3	0.2	0	0.0	0	0.0	43	1.4	2	1.2	0	0.0	0	0.0	48	0.9
Refrigerated van	65	4.6	0	0.0	0	0.0	394	12.7	3	1.8	0	0.0	0	0.0	462	8.9
Livestock carrier	1	0.1	0	0.0	0	0.0	33	1.1	0	0.0	0	0.0	0	0.0	34	0.7
Flatbed	115	8.1	29	13.8	0	0.0	468	15.1	24	14.6	3	6.4	0	0.0	639	12.3
Lowboy	0	0.0	0	0.0	0	0.0	85	2.7	0	0.0	0	0.0	0	0.0	85	1.6
Flatbed with equip.	32	2.3	4	1.9	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	39	0.8
Flatbed with sides	40	2.8	9	4.3	0	0.0	29	0.9	5	3.0	0	0.0	0	0.0	83	1.6
Pole/logging	21	1.5	5	2.4	0	0.0	92	3.0	2	1.2	1	2.1	0	0.0	121	2.3
Tank:liquid/gaseous	61	4.3	17	8.1	0	0.0	272	8.8	5	3.0	0	0.0	0	0.0	355	6.8
Tank:dry bulk	4	0.3	0	0.0	0	0.0	51	1.6	6	3.7	0	0.0	0	0.0	61	1.2
Auto carrier	1	0.1	20	9.5	0	0.0	9	0.3	0	0.0	0	0.0	0	0.0	30	0.6
Dump	374	26.3	63	30.0	0	0.0	246	8.0	7	4.3	0	0.0	0	0.0	690	13.3
Hopper bottom	1	0.1	0	0.0	0	0.0	96	3.1	34	20.7	0	0.0	0	0.0	131	2.5
Refuse	117	8.2	4	1.9	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	125	2.4
Other	276	19.4	45	21.4	0	0.0	19	0.6	3	1.8	34	72.3	0	0.0	377	7.3
Unknown	9	0.6	0	0.0	0	0.0	9	0.3	1	0.6	0	0.0	128	100.0	147	2.8
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 3-3
Fatal Truck Involvements by Type of Cargo and Truck Configuration
TIFA 1998

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	547	38.5	117	55.7	127	94.1	899	29.1	43	26.2	6	12.8	0	0.0	1739	33.5
General freight	186	13.1	0	0.0	0	0.0	770	24.9	59	36.0	2	4.3	0	0.0	1017	19.6
Household goods	20	1.4	7	3.3	0	0.0	15	0.5	0	0.0	0	0.0	0	0.0	42	0.8
Building materials	16	1.1	1	0.5	0	0.0	48	1.6	1	0.6	0	0.0	0	0.0	66	1.3
Metal (coils, sheets)	21	1.5	0	0.0	0	0.0	154	5.0	4	2.4	0	0.0	0	0.0	179	3.4
Heavy machinery	8	0.6	0	0.0	0	0.0	65	2.1	1	0.6	0	0.0	0	0.0	74	1.4
Large objects	13	0.9	5	2.4	0	0.0	55	1.8	6	3.7	1	2.1	0	0.0	80	1.5
Motor vehicles	14	1.0	11	5.2	0	0.0	5	0.2	0	0.0	2	4.3	0	0.0	32	0.6
Piggybk/towaway	4	0.3	0	0.0	8	5.9	0	0.0	0	0.0	13	27.7	0	0.0	25	0.5
Gases in bulk	5	0.4	0	0.0	0	0.0	17	0.5	1	0.6	0	0.0	0	0.0	23	0.4
Solids in bulk	318	22.4	29	13.8	0	0.0	314	10.1	20	12.2	0	0.0	0	0.0	681	13.1
Liquids in bulk	48	3.4	9	4.3	0	0.0	149	4.8	3	1.8	0	0.0	0	0.0	209	4.0
Explosives	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Logs/poles/lumber	25	1.8	7	3.3	0	0.0	138	4.5	5	3.0	0	0.0	0	0.0	175	3.4
Refrigerated foods	45	3.2	0	0.0	0	0.0	255	8.2	1	0.6	0	0.0	0	0.0	301	5.8
Mobile home	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	13	27.7	0	0.0	13	0.3
Farm products	21	1.5	3	1.4	0	0.0	81	2.6	11	6.7	0	0.0	0	0.0	116	2.2
Live animals	2	0.1	0	0.0	0	0.0	42	1.4	0	0.0	0	0.0	0	0.0	44	0.8
Other	89	6.3	13	6.2	0	0.0	13	0.4	3	1.8	3	6.4	0	0.0	121	2.3
Cargo, unk. type	1	0.1	0	0.0	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	9	0.2
Saddlemount tractor	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	14.9	0	0.0	7	0.1
Unknown	35	2.5	8	3.8	0	0.0	66	2.1	6	3.7	0	0.0	128	100.0	243	4.7
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

**Table 3-4
Fatal Truck Involvements by Cab Style and Truck Configuration
TIFA 1998**

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	1182	83.2	193	91.9	102	75.6	2739	88.5	135	82.3	35	74.5	3	2.3	4389	84.4
Cabover or cab-forward	235	16.5	17	8.1	33	24.4	347	11.2	29	17.7	12	25.5	2	1.6	675	13.0
Unknown	3	0.2	0	0.0	0	0.0	8	0.3	0	0.0	0	0.0	123	96.1	134	2.6
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

**Table 3-5
Fatal Truck Involvements by Cab Style and Power Unit Model Year
TIFA 1998**

Power Unit Model Year	Conventional		Cabover		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
1953	2	0.0	0	0.0	0	0.0	2	0.0
1962	2	0.0	0	0.0	0	0.0	2	0.0
1966	4	0.1	0	0.0	0	0.0	4	0.1
1967	3	0.1	1	0.1	0	0.0	4	0.1
1968	3	0.1	0	0.0	0	0.0	3	0.1
1969	3	0.1	1	0.1	0	0.0	4	0.1
1970	11	0.3	2	0.3	0	0.0	13	0.3
1971	15	0.3	2	0.3	0	0.0	17	0.3
1972	11	0.3	0	0.0	0	0.0	11	0.2
1973	9	0.2	7	1.0	0	0.0	16	0.3
1974	15	0.3	0	0.0	0	0.0	15	0.3
1975	19	0.4	3	0.4	0	0.0	22	0.4
1976	18	0.4	5	0.7	0	0.0	23	0.4
1977	22	0.5	11	1.6	0	0.0	33	0.6
1978	33	0.8	11	1.6	0	0.0	44	0.8
1979	40	0.9	8	1.2	0	0.0	48	0.9
1980	24	0.5	11	1.6	0	0.0	35	0.7
1981	30	0.7	15	2.2	0	0.0	45	0.9
1982	21	0.5	7	1.0	0	0.0	28	0.5
1983	22	0.5	5	0.7	0	0.0	27	0.5
1984	74	1.7	31	4.6	0	0.0	105	2.0
1985	90	2.1	33	4.9	0	0.0	123	2.4
1986	99	2.3	23	3.4	0	0.0	122	2.3
1987	129	2.9	32	4.7	0	0.0	161	3.1
1988	195	4.4	37	5.5	0	0.0	232	4.5
1989	200	4.6	36	5.3	0	0.0	236	4.5
1990	185	4.2	51	7.6	0	0.0	236	4.5
1991	193	4.4	25	3.7	0	0.0	218	4.2
1992	161	3.7	50	7.4	0	0.0	211	4.1
1993	272	6.2	65	9.6	0	0.0	337	6.5
1994	396	9.0	40	5.9	0	0.0	436	8.4
1995	542	12.3	57	8.4	0	0.0	599	11.5
1996	496	11.3	32	4.7	0	0.0	528	10.2
1997	429	9.8	42	6.2	0	0.0	471	9.1
1998	511	11.6	26	3.9	1	0.7	538	10.4
1999	106	2.4	2	0.3	0	0.0	108	2.1
Unknown	4	0.1	4	0.6	133	99.3	141	2.7
Total	4389	100.0	675	100.0	134	100.0	5198	100.0

Table 3-6
Fatal Truck Involvements by Power Unit Model Year and Truck Configuration
TIFA 1998

Power Unit Model Year	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.
1953	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
1962	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	2.1	0	0.0	2	0.0
1966	4	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1
1967	1	0.1	2	1.0	0	0.0	0	0.0	1	0.6	0	0.0	0	0.0	4	0.1
1968	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	2	4.3	0	0.0	3	0.1
1969	3	0.2	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1
1970	6	0.4	0	0.0	0	0.0	2	0.1	5	3.0	0	0.0	0	0.0	13	0.3
1971	10	0.7	1	0.5	2	1.5	3	0.1	1	0.6	0	0.0	0	0.0	17	0.3
1972	9	0.6	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	11	0.2
1973	9	0.6	0	0.0	1	0.7	5	0.2	1	0.6	0	0.0	0	0.0	16	0.3
1974	6	0.4	1	0.5	1	0.7	7	0.2	0	0.0	0	0.0	0	0.0	15	0.3
1975	12	0.8	4	1.9	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	22	0.4
1976	10	0.7	1	0.5	0	0.0	11	0.4	1	0.6	0	0.0	0	0.0	23	0.4
1977	13	0.9	2	1.0	4	3.0	11	0.4	1	0.6	2	4.3	0	0.0	33	0.6
1978	19	1.3	3	1.4	2	1.5	19	0.6	1	0.6	0	0.0	0	0.0	44	0.8
1979	26	1.8	5	2.4	2	1.5	11	0.4	2	1.2	2	4.3	0	0.0	48	0.9
1980	10	0.7	4	1.9	3	2.2	16	0.5	0	0.0	2	4.3	0	0.0	35	0.7
1981	19	1.3	3	1.4	4	3.0	18	0.6	1	0.6	0	0.0	0	0.0	45	0.9
1982	14	1.0	1	0.5	0	0.0	13	0.4	0	0.0	0	0.0	0	0.0	28	0.5
1983	14	1.0	1	0.5	1	0.7	5	0.2	4	2.4	0	0.0	2	1.6	27	0.5
1984	30	2.1	6	2.9	6	4.4	57	1.8	5	3.0	1	2.1	0	0.0	105	2.0
1985	39	2.7	5	2.4	4	3.0	70	2.3	5	3.0	0	0.0	0	0.0	123	2.4
1986	27	1.9	3	1.4	4	3.0	86	2.8	2	1.2	0	0.0	0	0.0	122	2.3
1987	55	3.9	10	4.8	5	3.7	81	2.6	5	3.0	5	10.6	0	0.0	161	3.1
1988	79	5.6	5	2.4	12	8.9	127	4.1	7	4.3	2	4.3	0	0.0	232	4.5
1989	71	5.0	5	2.4	10	7.4	140	4.5	5	3.0	5	10.6	0	0.0	236	4.5
1990	57	4.0	16	7.6	4	3.0	149	4.8	8	4.9	2	4.3	0	0.0	236	4.5
1991	73	5.1	12	5.7	5	3.7	126	4.1	1	0.6	1	2.1	0	0.0	218	4.2
1992	67	4.7	17	8.1	6	4.4	108	3.5	11	6.7	2	4.3	0	0.0	211	4.1
1993	88	6.2	7	3.3	7	5.2	230	7.4	4	2.4	1	2.1	0	0.0	337	6.5
1994	104	7.3	6	2.9	7	5.2	304	9.8	11	6.7	4	8.5	0	0.0	436	8.4
1995	162	11.4	23	11.0	18	13.3	374	12.1	18	11.0	4	8.5	0	0.0	599	11.5
1996	114	8.0	19	9.0	8	5.9	365	11.8	19	11.6	3	6.4	0	0.0	528	10.2
1997	139	9.8	22	10.5	8	5.9	279	9.0	19	11.6	2	4.3	2	1.6	471	9.1
1998	105	7.4	21	10.0	8	5.9	385	12.4	15	9.1	4	8.5	0	0.0	538	10.4
1999	20	1.4	4	1.9	2	1.5	72	2.3	8	4.9	2	4.3	0	0.0	108	2.1
Unknown	2	0.1	0	0.0	1	0.7	11	0.4	3	1.8	0	0.0	124	96.9	141	2.7
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 3-7
Fatal Truck Involvements by Truck Length and Truck Configuration
TIFA 1998

Truck Length (feet)	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.
16-20	226	15.9	0	0.0	31	23.0	0	0.0	0	0.0	0	0.0	0	0.0	257	4.9
21-25	430	30.3	0	0.0	85	63.0	0	0.0	0	0.0	0	0.0	0	0.0	515	9.9
26-30	435	30.6	5	2.4	15	11.1	0	0.0	0	0.0	0	0.0	0	0.0	455	8.8
31-35	232	16.3	15	7.1	3	2.2	4	0.1	0	0.0	1	2.1	0	0.0	255	4.9
36-40	48	3.4	24	11.4	0	0.0	43	1.4	0	0.0	1	2.1	0	0.0	116	2.2
41-45	7	0.5	34	16.2	0	0.0	69	2.2	0	0.0	1	2.1	0	0.0	111	2.1
46-50	1	0.1	20	9.5	0	0.0	77	2.5	0	0.0	4	8.5	0	0.0	102	2.0
51-55	0	0.0	18	8.6	0	0.0	259	8.4	5	3.0	6	12.8	0	0.0	288	5.5
56-60	0	0.0	17	8.1	0	0.0	574	18.6	4	2.4	3	6.4	0	0.0	598	11.5
61-65	0	0.0	18	8.6	0	0.0	1082	35.0	15	9.1	3	6.4	0	0.0	1118	21.5
66-70	0	0.0	13	6.2	0	0.0	680	22.0	11	6.7	3	6.4	0	0.0	707	13.6
71-75	0	0.0	26	12.4	0	0.0	200	6.5	67	40.9	4	8.5	0	0.0	297	5.7
76-80	0	0.0	7	3.3	0	0.0	10	0.3	15	9.1	0	0.0	0	0.0	32	0.6
81-85	0	0.0	2	1.0	0	0.0	2	0.1	11	6.7	3	6.4	0	0.0	18	0.3
86-90	0	0.0	0	0.0	0	0.0	0	0.0	7	4.3	0	0.0	0	0.0	7	0.1
91-95	0	0.0	0	0.0	0	0.0	0	0.0	8	4.9	4	8.5	0	0.0	12	0.2
96-100	0	0.0	0	0.0	0	0.0	0	0.0	3	1.8	0	0.0	0	0.0	3	0.1
101 +	0	0.0	0	0.0	0	0.0	0	0.0	5	3.0	4	8.5	0	0.0	9	0.2
Unknown	41	2.9	11	5.2	1	0.7	94	3.0	13	7.9	10	21.3	128	100.0	298	5.7
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 3-8
Fatal Truck Involvements by Gross Combination Weight and Truck Configuration
TIFA 1998

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	7	0.5	0	0.0	2	1.5	0	0.0	0	0.0	0	0.0	0	0.0	9	0.2
5,001-10,000	236	16.6	10	4.8	3	2.2	0	0.0	0	0.0	0	0.0	0	0.0	249	4.8
10,001-15,000	256	18.0	31	14.8	25	18.5	0	0.0	0	0.0	4	8.5	0	0.0	316	6.1
15,001-20,000	153	10.8	17	8.1	96	71.1	6	0.2	0	0.0	9	19.1	0	0.0	281	5.4
20,001-25,000	139	9.8	12	5.7	4	3.0	49	1.6	2	1.2	1	2.1	0	0.0	207	4.0
25,001-30,000	141	9.9	16	7.6	4	3.0	463	15.0	19	11.6	2	4.3	0	0.0	645	12.4
30,001-35,000	66	4.6	6	2.9	0	0.0	381	12.3	11	6.7	1	2.1	0	0.0	465	8.9
35,001-40,000	32	2.3	6	2.9	0	0.0	163	5.3	4	2.4	5	10.6	0	0.0	210	4.0
40,001-45,000	25	1.8	7	3.3	0	0.0	80	2.6	6	3.7	0	0.0	0	0.0	118	2.3
45,001-50,000	20	1.4	7	3.3	0	0.0	115	3.7	8	4.9	4	8.5	0	0.0	154	3.0
50,001-55,000	27	1.9	1	0.5	0	0.0	92	3.0	11	6.7	1	2.1	0	0.0	132	2.5
55,001-60,000	23	1.6	3	1.4	0	0.0	115	3.7	10	6.1	2	4.3	0	0.0	153	2.9
60,001-65,000	10	0.7	1	0.5	0	0.0	119	3.8	7	4.3	2	4.3	0	0.0	139	2.7
65,001-70,000	20	1.4	6	2.9	0	0.0	242	7.8	5	3.0	2	4.3	0	0.0	275	5.3
70,001-75,000	30	2.1	4	1.9	0	0.0	299	9.7	15	9.1	2	4.3	0	0.0	350	6.7
75,001-80,000	12	0.8	13	6.2	0	0.0	542	17.5	14	8.5	0	0.0	0	0.0	581	11.2
80,001-85,000	2	0.1	2	1.0	0	0.0	47	1.5	0	0.0	0	0.0	0	0.0	51	1.0
85,001-90,000	3	0.2	2	1.0	0	0.0	16	0.5	1	0.6	0	0.0	0	0.0	22	0.4
90,001-95,000	6	0.4	3	1.4	0	0.0	11	0.4	0	0.0	0	0.0	0	0.0	20	0.4
95,001-100,000	0	0.0	4	1.9	0	0.0	6	0.2	4	2.4	0	0.0	0	0.0	14	0.3
100,001-110,000	0	0.0	9	4.3	0	0.0	8	0.3	8	4.9	0	0.0	0	0.0	25	0.5
110,001-120,000	0	0.0	0	0.0	0	0.0	6	0.2	2	1.2	0	0.0	0	0.0	8	0.2
120,001-130,000	0	0.0	0	0.0	0	0.0	2	0.1	2	1.2	0	0.0	0	0.0	4	0.1
130,001-140,000	0	0.0	0	0.0	0	0.0	0	0.0	3	1.8	0	0.0	0	0.0	3	0.1
140,001-150,000	0	0.0	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
150,001-160,000	0	0.0	1	0.5	0	0.0	0	0.0	1	0.6	0	0.0	0	0.0	2	0.0
160,001 and over	0	0.0	0	0.0	0	0.0	0	0.0	1	0.6	0	0.0	0	0.0	1	0.0
Unknown	212	14.9	48	22.9	1	0.7	332	10.7	30	18.3	12	25.5	128	100.0	763	14.7
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 3-9
Fatal Truck Involvements by Gross Vehicle Weight Rating and Truck Configuration
TIFA 1998

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	212	14.9	54	25.7	0	0.0	0	0.0	0	0.0	2	4.3	0	0.0	268	5.2
Class 4: 14,001-16,000	91	6.4	10	4.8	0	0.0	0	0.0	0	0.0	1	2.1	0	0.0	102	2.0
Class 5: 16,001-19,500	25	1.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	25	0.5
Class 6: 19,501-26,000	221	15.6	12	5.7	2	1.5	4	0.1	0	0.0	4	8.5	0	0.0	243	4.7
Class 7: 26,001-33,000	214	15.1	28	13.3	9	6.7	62	2.0	37	22.6	3	6.4	0	0.0	353	6.8
Class 8: 33,001 or more	574	40.4	96	45.7	116	85.9	3007	97.2	111	67.7	29	61.7	4	3.1	3937	75.7
Unknown	83	5.8	10	4.8	8	5.9	21	0.7	16	9.8	8	17.0	124	96.9	270	5.2
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	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 1998**

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	389	27.4	55	26.2	10	7.4	598	19.3	14	8.5	7	14.9	0	0.0	1073	20.6
Interstate For-hire	128	9.0	39	18.6	84	62.2	2084	67.4	100	61.0	22	46.8	0	0.0	2457	47.3
Intrastate Private	571	40.2	77	36.7	15	11.1	191	6.2	15	9.1	9	19.1	0	0.0	878	16.9
Intrastate For-hire	152	10.7	13	6.2	3	2.2	153	4.9	27	16.5	8	17.0	0	0.0	356	6.8
Government Owned	78	5.5	6	2.9	0	0.0	10	0.3	0	0.0	1	2.1	0	0.0	95	1.8
Daily Rental	37	2.6	11	5.2	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	50	1.0
Unknown	65	4.6	9	4.3	23	17.0	56	1.8	8	4.9	0	0.0	128	100.0	289	5.6
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

**Table 3-11
Fatal Truck Involvements by Trip Type and Truck Configuration
TIFA 1998**

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	1012	71.3	113	53.8	32	23.7	696	22.5	45	27.4	21	44.7	0	0.0	1919	36.9
51-100 miles	180	12.7	21	10.0	11	8.1	445	14.4	20	12.2	6	12.8	0	0.0	683	13.1
101-200	58	4.1	20	9.5	7	5.2	369	11.9	23	14.0	4	8.5	0	0.0	481	9.3
201-500	33	2.3	15	7.1	2	1.5	509	16.5	36	22.0	8	17.0	0	0.0	603	11.6
Over 500	10	0.7	14	6.7	2	1.5	619	20.0	18	11.0	5	10.6	0	0.0	668	12.9
Unk over-the-road dist.	3	0.2	7	3.3	2	1.5	85	2.7	1	0.6	1	2.1	0	0.0	99	1.9
Unknown	124	8.7	20	9.5	79	58.5	371	12.0	21	12.8	2	4.3	128	100.0	745	14.3
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	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.

- 2.1% of truck drivers involved in a fatal traffic accident had been drinking.
- Drug use was reported for 0.7% of truck drivers in a fatal crash.
- 96.6% of truck drivers involved in a fatal accident were male.
- 658 truck drivers were fatally injured in a traffic accident.
- 1.8% of truck drivers involved in a fatal accident were recorded as drowsy or asleep.
- Ran-off-road was the most common driver factor recorded (11.3%), followed by driving too fast (8.7%) and failure to yield (5.1%).
- 61.1% 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

The following abbreviations are used in this chapter:

Abbreviation	Definition
Strt	Straight truck
Trac	Tractor
Trlrs	Trailers
Oth combs	Other combinations
Semi	Semitrailer
Veh	Vehicle
CDL	Commercial driver's license

**Table 4-1
Fatal Truck Involvements by Driver Drinking Status and Truck Configuration
TIFA 1998**

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	1372	96.6	201	95.7	132	97.8	3051	98.6	163	99.4	47	100.0	123	96.1	5089	97.9
Drinking	48	3.4	9	4.3	3	2.2	43	1.4	1	0.6	0	0.0	5	3.9	109	2.1
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

**Table 4-2
Fatal Truck Involvements by Driver Drug Use and Truck Configuration
TIFA 1998**

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	430	30.3	48	22.9	34	25.2	784	25.3	50	30.5	15	31.9	30	23.4	1391	26.8
Drugs Involved	9	0.6	2	1.0	1	0.7	22	0.7	1	0.6	0	0.0	0	0.0	35	0.7
Not Reported	913	64.3	146	69.5	89	65.9	2105	68.0	100	61.0	27	57.4	97	75.8	3477	66.9
Reported Unk.	68	4.8	14	6.7	11	8.1	183	5.9	13	7.9	5	10.6	1	0.8	295	5.7
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

**Table 4-3
Fatal Truck Involvements by Driver Age and Truck Configuration
TIFA 1998**

Age (years)	Strt truck		Strt/1trailer		Bobtail		Trac/1semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
16-20	47	3.3	4	1.9	0	0.0	10	0.3	2	1.2	0	0.0	3	2.3	66	1.3
21-25	115	8.1	21	10.0	9	6.7	198	6.4	8	4.9	2	4.3	3	2.3	356	6.8
26-30	173	12.2	21	10.0	24	17.8	295	9.5	8	4.9	2	4.3	19	14.8	542	10.4
31-35	238	16.8	30	14.3	18	13.3	408	13.2	15	9.1	4	8.5	12	9.4	725	13.9
36-40	240	16.9	28	13.3	17	12.6	472	15.3	29	17.7	5	10.6	23	18.0	814	15.7
41-45	183	12.9	33	15.7	15	11.1	533	17.2	18	11.0	11	23.4	14	10.9	807	15.5
46-50	133	9.4	12	5.7	21	15.6	395	12.8	22	13.4	3	6.4	12	9.4	598	11.5
51-55	119	8.4	22	10.5	12	8.9	307	9.9	28	17.1	8	17.0	15	11.7	511	9.8
56-60	71	5.0	23	11.0	9	6.7	230	7.4	20	12.2	5	10.6	14	10.9	372	7.2
61-65	44	3.1	6	2.9	2	1.5	117	3.8	7	4.3	4	8.5	10	7.8	190	3.7
66-70	26	1.8	5	2.4	2	1.5	70	2.3	3	1.8	0	0.0	0	0.0	106	2.0
71-75	11	0.8	2	1.0	1	0.7	13	0.4	0	0.0	0	0.0	0	0.0	27	0.5
> 75	2	0.1	0	0.0	1	0.7	8	0.3	0	0.0	0	0.0	0	0.0	11	0.2
Unknown	18	1.3	3	1.4	4	3.0	38	1.2	4	2.4	3	6.4	3	2.3	73	1.4
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 4-4
Fatal Truck Involvements by Driver Sex and Truck Configuration
TIFA 1998

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	1376	96.9	202	96.2	131	97.0	2989	96.6	157	95.7	44	93.6	121	94.5	5020	96.6
Female	26	1.8	5	2.4	0	0.0	67	2.2	3	1.8	0	0.0	4	3.1	105	2.0
Unknown	18	1.3	3	1.4	4	3.0	38	1.2	4	2.4	3	6.4	3	2.3	73	1.4
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 4-5
Fatal Truck Involvements by Driver Restraint Use and Truck Configuration
TIFA 1998

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	375	26.4	44	21.0	32	23.7	455	14.7	28	17.1	5	10.6	40	31.3	979	18.8
Shoulder Belt	5	0.4	0	0.0	1	0.7	8	0.3	0	0.0	0	0.0	0	0.0	14	0.3
Lap Belt	149	10.5	27	12.9	18	13.3	264	8.5	34	20.7	9	19.1	15	11.7	516	9.9
Lap and Shoulder	638	44.9	106	50.5	61	45.2	1758	56.8	72	43.9	24	51.1	64	50.0	2723	52.4
Used, Type Unk	64	4.5	8	3.8	6	4.4	208	6.7	9	5.5	3	6.4	0	0.0	298	5.7
Belt Use Improper	2	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Unknown	187	13.2	25	11.9	17	12.6	400	12.9	21	12.8	6	12.8	9	7.0	665	12.8
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 4-6
Fatal Truck Involvements by Driver Injury Severity and Truck Configuration
TIFA 1998

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)	203	14.3	27	12.9	19	14.1	360	21.0	21	12.8	6	12.8	22	17.2	658	12.7
Incapacitating (A)	120	8.5	10	4.8	5	3.7	129	4.2	6	3.7	0	0.0	10	7.8	280	5.4
Non-incapacitating (B)	164	11.5	31	14.8	18	13.3	279	9.0	28	17.1	3	6.4	11	8.6	534	10.3
Complaint of pain (C)	181	12.7	28	13.3	14	10.4	341	11.0	17	10.4	7	14.9	10	7.8	598	11.5
No injury (O)	729	51.3	109	51.9	75	55.6	1939	62.7	89	54.3	28	59.6	73	57.0	3042	58.5
Died prior to accident	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Unknown	23	1.6	5	2.4	4	3.0	44	1.4	3	1.8	3	6.4	2	1.6	84	1.6
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 4-7
Fatal Truck Involvements by Driver Injury Severity and Rollover/Fire/Ejection Status
TIFA 1998

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	190	28.9	70	25.0	94	17.6	64	10.7	82	2.7	0	0.0	3	3.6	503	9.7
Fire only	62	9.4	25	8.9	27	5.1	24	4.0	66	2.2	0	0.0	0	0.0	204	3.9
Ejection only	48	7.3	9	3.2	3	0.6	0	0.0	0	0.0	0	0.0	0	0.0	60	1.2
Rollover and fire	42	6.4	4	1.4	5	0.9	4	0.7	4	0.1	0	0.0	0	0.0	59	1.1
Rollover & ejection	127	19.3	12	4.3	2	0.4	0	0.0	0	0.0	0	0.0	0	0.0	141	2.7
Fire and ejection	10	1.5	0	0.0	0	0.0	2	0.3	0	0.0	0	0.0	0	0.0	12	0.2
Rollover, fire, & eject	9	1.4	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	10	0.2
None	167	25.4	159	56.8	401	75.1	504	84.3	2888	94.9	2	100.0	23	27.4	4144	79.7
Unknown	3	0.5	0	0.0	2	0.4	0	0.0	2	0.1	0	0.0	58	69.0	65	1.3
Total	658	100.0	280	100.0	534	100.0	598	100.0	3042	100.0	2	100.0	84	100.0	5198	100.0

Table 4-8
Fatal Truck Involvements by Driver Extrication and Truck Configuration
TIFA 1998

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	1331	93.7	201	95.7	130	96.3	2949	95.3	153	93.3	42	89.4	127	99.2	4933	94.9
Extricated	56	3.9	5	2.4	2	1.5	98	3.2	6	3.7	2	4.3	0	0.0	169	3.3
Unknown	33	2.3	4	1.9	3	2.2	47	1.5	5	3.0	3	6.4	1	0.8	96	1.8
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 4-9
Fatal Truck Involvements by Reported Hours Driven and Truck Configuration
TIFA 1998

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	361	25.4	63	30.0	18	13.3	560	18.1	23	14.0	13	27.7	0	0.0	1038	20.0
2 hrs	144	10.1	25	11.9	4	3.0	371	12.0	19	11.6	3	6.4	0	0.0	566	10.9
3 hrs	92	6.5	9	4.3	6	4.4	253	8.2	11	6.7	2	4.3	0	0.0	373	7.2
4-5 hrs	145	10.2	14	6.7	7	5.2	385	12.4	25	15.2	6	12.8	0	0.0	582	11.2
6-8 hrs	113	8.0	17	8.1	3	2.2	351	11.3	17	10.4	3	6.4	0	0.0	504	9.7
9-12 hrs	20	1.4	5	2.4	3	2.2	95	3.1	5	3.0	2	4.3	0	0.0	130	2.5
13-18 hrs	0	0.0	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	3	0.1
> 18 hrs	0	0.0	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Unknown, legal	41	2.9	4	1.9	2	1.5	133	4.3	10	6.1	1	2.1	0	0.0	191	3.7
Unk, not legal	4	0.3	0	0.0	0	0.0	9	0.3	1	0.6	0	0.0	0	0.0	14	0.3
Unknown/NA	500	35.2	73	34.8	92	68.1	930	30.1	53	32.3	17	36.2	128	100.0	1793	34.5
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 4-10
Fatal Truck Involvements by Number of Previous Accidents and Truck Configuration
TIFA 1998

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	1089	76.7	172	81.9	99	73.3	2371	76.6	117	71.3	30	63.8	98	76.6	3976	76.5
1	199	14.0	28	13.3	29	21.5	436	14.1	31	18.9	10	21.3	24	18.8	757	14.6
2	48	3.4	6	2.9	1	0.7	105	3.4	5	3.0	0	0.0	0	0.0	165	3.2
3	19	1.3	0	0.0	2	1.5	11	0.4	0	0.0	0	0.0	0	0.0	32	0.6
4	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	0	0.0	0	0.0	0	0.0	0	0.0	1	0.6	1	2.1	0	0.0	2	0.0
6	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
8	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	24	1.7	0	0.0	0	0.0	26	0.8	4	2.4	1	2.1	2	1.6	57	1.1
Unknown	38	2.7	4	1.9	4	3.0	143	4.6	6	3.7	5	10.6	4	3.1	204	3.9
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 4-11
Fatal Truck Involvements by Number of Previous Suspensions and Truck Configuration
TIFA 1998

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	1282	90.3	189	90.0	120	88.9	2745	88.7	149	90.9	40	85.1	121	94.5	4646	89.4
1	57	4.0	9	4.3	5	3.7	138	4.5	4	2.4	1	2.1	3	2.3	217	4.2
2	22	1.5	4	1.9	5	3.7	45	1.5	5	3.0	1	2.1	0	0.0	82	1.6
3	13	0.9	3	1.4	0	0.0	11	0.4	0	0.0	0	0.0	0	0.0	27	0.5
4	4	0.3	1	0.5	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	9	0.2
5	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
6	0	0.0	0	0.0	1	0.7	5	0.2	0	0.0	0	0.0	0	0.0	6	0.1
7	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
8	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
9	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	38	2.7	4	1.9	4	3.0	143	4.6	6	3.7	5	10.6	4	3.1	204	3.9
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 4-12
Fatal Truck Involvements by Number of Previous Speeding Convictions and Truck Configuration
TIFA 1998

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	1103	77.7	164	78.1	85	63.0	2067	66.8	124	75.6	34	72.3	73	57.0	3650	70.2
1	188	13.2	29	13.8	28	20.7	553	17.9	24	14.6	6	12.8	31	24.2	859	16.5
2	65	4.6	5	2.4	13	9.6	211	6.8	6	3.7	2	4.3	11	8.6	313	6.0
3	14	1.0	3	1.4	2	1.5	68	2.2	3	1.8	0	0.0	7	5.5	97	1.9
4	9	0.6	3	1.4	1	0.7	28	0.9	1	0.6	0	0.0	2	1.6	44	0.8
5	3	0.2	0	0.0	0	0.0	18	0.6	0	0.0	0	0.0	0	0.0	21	0.4
6	0	0.0	2	1.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.1
7	0	0.0	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	4	0.1
8	0	0.0	0	0.0	2	1.5	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
>8	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Unknown	38	2.7	4	1.9	4	3.0	143	4.6	6	3.7	5	10.6	4	3.1	204	3.9
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 4-13
Fatal Truck Involvements by Previous Other Moving Convictions and Truck Configuration
TIFA 1998

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	1088	76.6	174	82.9	93	68.9	2253	72.8	123	75.0	30	63.8	115	89.8	3876	74.6
1	199	14.0	27	12.9	29	21.5	496	16.0	25	15.2	8	17.0	7	5.5	791	15.2
2	70	4.9	2	1.0	3	2.2	119	3.8	4	2.4	4	8.5	2	1.6	204	3.9
3	13	0.9	2	1.0	4	3.0	49	1.6	4	2.4	0	0.0	0	0.0	72	1.4
4	7	0.5	0	0.0	0	0.0	23	0.7	2	1.2	0	0.0	0	0.0	32	0.6
5	4	0.3	0	0.0	2	1.5	5	0.2	0	0.0	0	0.0	0	0.0	11	0.2
6	0	0.0	1	0.5	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	4	0.1
7	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
8	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
>8	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Unknown	38	2.7	4	1.9	4	3.0	143	4.6	6	3.7	5	10.6	4	3.1	204	3.9
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 4-14
Fatal Truck Involvements by License Class Compliance and Truck Configuration
TIFA 1998

License Class Compliance	Strt truck		Strt/1trailer		Bobtail		Trac/1 semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Not Licensed	10	0.7	4	1.9	0	0.0	2	0.1	0	0.0	0	0.0	1	0.8	17	0.3
Not Valid	68	4.8	10	4.8	10	7.4	60	1.9	7	4.3	1	2.1	0	0.0	156	3.0
Valid	1295	91.2	191	91.0	120	88.9	2905	93.9	151	92.1	41	87.2	124	96.9	4827	92.9
Unk if CDL req.	9	0.6	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	10	0.2
Unknown	38	2.7	4	1.9	5	3.7	127	4.1	6	3.7	5	10.6	3	2.3	188	3.6
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 4-15
Fatal Truck Involvements by CDL License Status and Truck Configuration
TIFA 1998

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	476	33.5	68	32.4	2	1.5	16	0.5	2	1.2	10	21.3	7	5.5	581	11.2
Suspended	3	0.2	0	0.0	2	1.5	22	0.7	0	0.0	0	0.0	0	0.0	27	0.5
Revoked	1	0.1	0	0.0	2	1.5	4	0.1	2	1.2	0	0.0	0	0.0	9	0.2
Expired	3	0.2	0	0.0	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	9	0.2
Disqualified	5	0.4	0	0.0	1	0.7	4	0.1	0	0.0	0	0.0	0	0.0	10	0.2
Valid	889	62.6	137	65.2	120	88.9	2903	93.8	152	92.7	32	68.1	117	91.4	4350	83.7
Learner's Permit	0	0.0	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	1	0.8	6	0.1
Other-Not Valid	3	0.2	1	0.5	3	2.2	7	0.2	2	1.2	0	0.0	0	0.0	16	0.3
Unknown	40	2.8	4	1.9	5	3.7	127	4.1	6	3.7	5	10.6	3	2.3	190	3.7
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 4-16
Fatal Truck Involvements by License Endorsements and Truck Configuration
TIFA 1998

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	1123	79.1	154	73.3	83	61.5	1752	56.6	33	20.1	35	74.5	118	92.2	3298	63.4
Complied	101	7.1	31	14.8	18	13.3	495	16.0	96	58.5	5	10.6	2	1.6	748	14.4
Not Complied	4	0.3	2	1.0	0	0.0	10	0.3	3	1.8	0	0.0	0	0.0	19	0.4
Compliance Unk	116	8.2	18	8.6	25	18.5	522	16.9	22	13.4	2	4.3	3	2.3	708	13.6
Unknown	76	5.4	5	2.4	9	6.7	315	10.2	10	6.1	5	10.6	5	3.9	425	8.2
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	100.0

Table 4-17
Fatal Truck Involvements by Driver-related Factors and Truck Configuration
TIFA 1998

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	849	59.8	117	55.7	68	50.4	1916	61.9	105	64.0	35	74.5	86	67.2	3176	61.1
<i>Physical/Mental Cond.</i>																
Drowsy, asleep	21	1.5	2	1.0	2	1.5	65	2.1	4	2.4	1	2.1	0	0.0	95	1.8
Ill, passed out, blackout	4	0.3	0	0.0	1	0.7	8	0.3	1	0.6	0	0.0	0	0.0	14	0.3
Reaction to drugs	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Inattentive	56	3.9	11	5.2	7	5.2	121	3.9	10	6.1	0	0.0	11	8.6	216	4.2
Restricted to wheelchair	2	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Previous injury	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 impairment	2	0.1	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Failure to take medication	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
<i>Miscellaneous Causes</i>																
On prohib. trafficway	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Invalid license	4	0.3	1	0.5	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	11	0.2
Vehicle unattended	8	0.6	3	1.4	3	2.2	20	0.6	1	0.6	3	6.4	0	0.0	38	0.7
Improper loading	15	1.1	5	2.4	0	0.0	31	1.0	1	0.6	0	0.0	0	0.0	52	1.0
Improper towing	3	0.2	4	1.9	0	0.0	0	0.0	0	0.0	1	2.1	0	0.0	8	0.2
Improper lights	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	7	0.5	7	3.3	0	0.0	16	0.5	5	3.0	0	0.0	0	0.0	35	0.7
Improper tailing	17	1.2	6	2.9	7	5.2	75	2.4	4	2.4	0	0.0	0	0.0	109	2.1
Improper lane change	7	0.5	2	1.0	1	0.7	35	1.1	3	1.8	0	0.0	0	0.0	48	0.9
Ran off road/lane	173	12.2	27	12.9	32	23.7	326	10.5	20	12.2	6	12.8	5	3.9	589	11.3
Driving on shoulder	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Improper entry/exit	2	0.1	0	0.0	0	0.0	7	0.2	0	0.0	0	0.0	0	0.0	9	0.2
Improper start/back	10	0.7	0	0.0	0	0.0	27	0.9	0	0.0	0	0.0	0	0.0	37	0.7
Open veh closure	2	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Prohibited passing	9	0.6	0	0.0	1	0.7	5	0.2	0	0.0	0	0.0	0	0.0	15	0.3
Passing-wrong side	0	0.0	0	0.0	2	1.5	2	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Passing-insufficient dist	6	0.4	3	1.4	1	0.7	16	0.5	3	1.8	0	0.0	0	0.0	29	0.6
Erratic/reckless	45	3.2	8	3.8	3	2.2	92	3.0	4	2.4	0	0.0	0	0.0	152	2.9
Failure to yield	88	6.2	5	2.4	5	3.7	143	4.6	2	1.2	0	0.0	20	15.6	263	5.1
Failure to obey signs	60	4.2	10	4.8	1	0.7	73	2.4	0	0.0	0	0.0	16	12.5	160	3.1
Passing around barrier	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Fail to observe warning	0	0.0	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	5	0.1
Failure to signal	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Driving too fast	81	5.7	19	9.0	17	12.6	309	10.0	17	10.4	1	2.1	6	4.7	450	8.7
Under minimum speed	2	0.1	3	1.4	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	7	0.1
Turning from wrong lane	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 improper turn	15	1.1	2	1.0	1	0.7	56	1.8	3	1.8	0	0.0	2	1.6	79	1.5
Driving wrong way	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.0
Wrong side of road	9	0.6	1	0.5	4	3.0	21	0.7	2	1.2	0	0.0	1	0.8	38	0.7
Operator inexperience	5	0.4	1	0.5	0	0.0	1	0.0	2	1.2	0	0.0	1	0.8	10	0.2
Unfamiliar w/roadway	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Stopping in roadway	13	0.9	1	0.5	0	0.0	27	0.9	1	0.6	0	0.0	0	0.0	42	0.8
Improper tire pressure	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Locked wheel	3	0.2	0	0.0	0	0.0	9	0.3	5	3.0	0	0.0	0	0.0	17	0.3
Over correcting	22	1.5	2	1.0	1	0.7	19	0.6	0	0.0	0	0.0	1	0.8	45	0.9
On/Off moving vehicle	0	0.0	0	0.0	0	0.0	1	0.0	1	0.6	0	0.0	0	0.0	2	0.0
On/Off stopped veh	1	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1

(continued on next page)

Table 4-17 (continued)

Driver-related Factors	Strt truck		Strt/1trailer		Bobtail		Trac/1semi		Trac/2 trlrs		Oth combs		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<i>Vision Obscured By</i>																
Inclement weather	15	1.1	2	1.0	2	1.5	47	1.5	3	1.8	0	0.0	0	0.0	69	1.3
Glare	5	0.4	1	0.5	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	9	0.2
Curve, hill, etc.	3	0.2	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	5	0.1
Building, billboard	0	0.0	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Trees, crops, vegetation	3	0.2	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	8	0.2
Motor vehicle	4	0.3	0	0.0	1	0.7	6	0.2	1	0.6	0	0.0	0	0.0	12	0.2
Parked vehicle	2	0.1	0	0.0	1	0.7	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Splashed, sprayed	0	0.0	0	0.0	0	0.0	2	0.1	1	0.6	0	0.0	0	0.0	3	0.1
Obstructing angles	10	0.7	0	0.0	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	16	0.3
Other mirror	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	0	0.0	2	1.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
<i>Avoiding, Swerving Due To</i>																
Severe crosswind	2	0.1	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	4	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	4	0.3	1	0.5	1	0.7	2	0.1	0	0.0	0	0.0	1	0.8	9	0.2
Debris in road	0	0.0	0	0.0	0	0.0	5	0.2	1	0.6	0	0.0	0	0.0	6	0.1
Live animal in road	0	0.0	1	0.5	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Vehicle in road	5	0.4	2	1.0	4	3.0	18	0.6	0	0.0	0	0.0	0	0.0	29	0.6
Phantom vehicle	3	0.2	1	0.5	0	0.0	7	0.2	1	0.6	0	0.0	0	0.0	12	0.2
Pedestrian in road	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Ice,water,snow on road	7	0.5	2	1.0	4	3.0	38	1.2	4	2.4	0	0.0	0	0.0	55	1.1
<i>Other Misc. Factors</i>																
Hit and run driver	2	0.1	0	0.0	2	1.5	21	0.7	3	1.8	0	0.0	1	0.8	29	0.6
Nontraffic violation	25	1.8	3	1.4	8	5.9	50	1.6	6	3.7	0	0.0	0	0.0	92	1.8
Other nonmoving viol.	37	2.6	6	2.9	4	3.0	83	2.7	1	0.6	2	4.3	0	0.0	133	2.6
<i>Possible Distractions</i>																
Cellular phone	1	0.1	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	6	0.1
Unknown	84	5.9	12	5.7	4	3.0	140	4.5	0	0.0	0	0.0	4	3.1	244	4.7
Total	1420	100.0	210	100.0	135	100.0	3094	100.0	164	100.0	47	100.0	128	100.0	5198	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 1998. 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, pulling a full or other trailer, as well as wreckers towing cars or other straight trucks. There was one case of a wrecker towing a tractor-doubles combination.

- Truck configurations with a straight-truck power unit accounted for 31.7% of all trucks involved in a fatal traffic accident in 1998.
- 41.1% of straight trucks were Class 8 (over 33,000 lbs.) Gross Vehicle Weight Rating (GVWR), and 16.3% were Class 3 (10,001-14,000 lbs.).
- The lightest straight trucks involved in a fatal accident in 1998 weighed 5,000 pounds or less; the heaviest straight truck combination weighed over 150,000 pounds.
- 40.4% of straight trucks were empty at the time of the accident; while solids in bulk was the most frequent cargo type, accounting for 21.0%.
- 52.9% of straight truck configurations involved in a fatal traffic accident had two axles, 24.4% had three axles (including the trailer), and one straight truck combination had six axles on the power unit and five axles on the trailer.
- 39.7% of straight trucks were operated by a private, intrastate carrier; 27.0% by a private, interstate carrier; and only 10.4% by a for-hire, interstate carrier.
- 69.1% of straight trucks were on a local trip (within 50 miles of base) at the time of the accident.
- 230 straight truck drivers were fatally injured in a traffic accident; 51.3% of the fatalities occurred in ran-off-road crashes.

Note: 340 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, cement pumps, or boom trucks.

Configuration

Table 5-1
Fatal Truck Involvements by Truck Configuration
TIFA 1998

Configuration	No.	Pct.
<i>Straight Truck Only</i>	1420	86.1
<i>Straight Truck, 1 Trailer</i>		
Straight + Full Trailer	61	3.7
Straight + Other	109	6.6
Straight + Other, Gooseneck Hitch	40	2.4
<i>Subtotal</i>	210	12.7
<i>Other Straight Combinations</i>		
Wrecker + Tow	14	0.8
Straight Truck Towing Straight Truck	4	0.2
Wrecker and Doubles	1	0.1
<i>Subtotal</i>	19	1.2
Total Straight Trucks	1649	100.0

Table 5-2
Fatal Truck Involvements by Cargo Body Style - Straight Trucks
TIFA 1998

Cargo Body Style	No.	Pct.
Van	314	19.0
Open top van	3	0.2
Refrigerated van	65	3.9
Livestock carrier	1	0.1
Flatbed	144	8.7
Flatbed with equipment	36	2.2
Flatbed with sides	49	3.0
Pole/logging	26	1.6
Tank:liquid/gas	78	4.7
Tank:dry bulk	4	0.2
Auto carrier	21	1.3
Dump	437	26.5
Hopper bottom	1	0.1
Garbage/refuse	121	7.3
Other	340	20.6
Unknown	9	0.5
Total	1649	100.0

Table 5-3
Fatal Truck Involvements by Gross Vehicle Weight Rating and Cargo Body Style - Straight Trucks
TIFA 1998

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	80	20.9	54	23.6	3	3.7	13	3.0	0	0.0	0	0.0	116	32.0	2	22.2	268	16.3
Class 4: 14,001-16,000	25	6.5	24	10.5	1	1.2	5	1.1	2	1.7	0	0.0	45	12.4	0	0.0	102	6.2
Class 5: 16,001-19,500	15	3.9	5	2.2	0	0.0	0	0.0	0	0.0	0	0.0	5	1.4	0	0.0	25	1.5
Class 6: 19,501-26,000	128	33.5	40	17.5	11	13.4	8	1.8	3	2.5	2	7.7	45	12.4	0	0.0	237	14.4
Class 7: 26,001-33,000	92	24.1	39	17.0	27	32.9	43	9.8	16	13.2	0	0.0	24	6.6	1	11.1	242	14.7
Class 8: 33,001 or more	10	2.6	50	21.8	38	46.3	347	79.2	96	79.3	22	84.6	112	30.9	3	33.3	678	41.1
Unknown	32	8.4	17	7.4	2	2.4	22	5.0	4	3.3	2	7.7	15	4.1	3	33.3	97	5.9
Total	382	100.0	229	100.0	82	100.0	438	100.0	121	100.0	26	100.0	362	100.0	9	100.0	1649	100.0

* Note: The Other category includes 21 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 1998

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	7	1.9	0	0.0	7	0.4
5,001-10,000	60	15.7	62	27.1	5	6.1	17	3.9	0	0.0	0	0.0	102	28.2	0	0.0	246	14.9
10,001-15,000	123	32.2	65	28.4	7	8.5	29	6.6	3	2.5	3	11.5	60	16.6	0	0.0	290	17.6
15,001-20,000	69	18.1	35	15.3	10	12.2	26	5.9	5	4.1	2	7.7	31	8.6	0	0.0	178	10.8
20,001-25,000	27	7.1	7	3.1	14	17.1	77	17.6	11	9.1	1	3.8	14	3.9	0	0.0	151	9.2
25,001-30,000	11	2.9	8	3.5	11	13.4	72	16.4	27	22.3	4	15.4	24	6.6	0	0.0	157	9.5
30,001-35,000	5	1.3	9	3.9	3	3.7	22	5.0	21	17.4	2	7.7	10	2.8	0	0.0	72	4.4
35,001-40,000	0	0.0	1	0.4	1	1.2	18	4.1	13	10.7	0	0.0	6	1.7	0	0.0	39	2.4
40,001-45,000	4	1.0	1	0.4	0	0.0	12	2.7	5	4.1	2	7.7	8	2.2	0	0.0	32	1.9
45,001-50,000	0	0.0	0	0.0	3	3.7	19	4.3	2	1.7	0	0.0	5	1.4	0	0.0	29	1.8
50,001-55,000	0	0.0	2	0.9	0	0.0	16	3.7	4	3.3	0	0.0	7	1.9	0	0.0	29	1.8
55,001-60,000	0	0.0	0	0.0	2	2.4	18	4.1	3	2.5	0	0.0	4	1.1	0	0.0	27	1.6
60,001-65,000	0	0.0	0	0.0	1	1.2	7	1.6	0	0.0	0	0.0	3	0.8	0	0.0	11	0.7
65,001-70,000	0	0.0	2	0.9	0	0.0	15	3.4	4	3.3	0	0.0	5	1.4	0	0.0	26	1.6
70,001-75,000	0	0.0	1	0.4	4	4.9	17	3.9	0	0.0	4	15.4	10	2.8	0	0.0	36	2.2
75,001-80,000	0	0.0	0	0.0	2	2.4	14	3.2	1	0.8	1	3.8	7	1.9	0	0.0	25	1.5
80,001-85,000	0	0.0	0	0.0	0	0.0	4	0.9	0	0.0	0	0.0	0	0.0	0	0.0	4	0.2
85,001-90,000	0	0.0	1	0.4	1	1.2	2	0.5	0	0.0	1	3.8	0	0.0	0	0.0	5	0.3
90,001-95,000	0	0.0	0	0.0	0	0.0	8	1.8	0	0.0	1	3.8	0	0.0	0	0.0	9	0.5
95,001-100,000	0	0.0	0	0.0	2	2.4	1	0.2	1	0.8	0	0.0	0	0.0	0	0.0	4	0.2
100,001-110,000	0	0.0	0	0.0	3	3.7	5	1.1	0	0.0	1	3.8	0	0.0	0	0.0	9	0.5
110,001-120,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120,001-130,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
130,001-140,000	0	0.0	0	0.0	0	0.0	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	3.8	0	0.0	0	0.0	1	0.1
150,001-160,000	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
Unknown	83	21.7	34	14.8	13	15.9	39	8.9	21	17.4	3	11.5	59	16.3	9	100.0	261	15.8
Total	382	100.0	229	100.0	82	100.0	438	100.0	121	100.0	26	100.0	362	100.0	9	100.0	1649	100.0

* Note: The Other category includes 21 auto carriers and one livestock carrier.

Table 5-5
Fatal Truck Involvements by Cargo Type and Cargo Body Style - Straight Trucks
TIFA 1998

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	84	26.8	0	0.0	11	16.9	0	0.0	79	54.9	18	50.0	23	46.9	6	23.1	17	21.8
General freight	160	51.0	1	33.3	3	4.6	0	0.0	10	6.9	1	2.8	11	22.4	0	0.0	0	0.0
Household goods	27	8.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Building materials	5	1.6	0	0.0	0	0.0	0	0.0	8	5.6	3	8.3	1	2.0	0	0.0	0	0.0
Metal (coils, sheets)	2	0.6	0	0.0	0	0.0	0	0.0	11	7.6	2	5.6	2	4.1	0	0.0	0	0.0
Heavy machinery	0	0.0	0	0.0	0	0.0	0	0.0	3	2.1	0	0.0	1	2.0	0	0.0	0	0.0
Large objects	2	0.6	0	0.0	0	0.0	0	0.0	7	4.9	3	8.3	2	4.1	0	0.0	0	0.0
Motor vehicles	0	0.0	0	0.0	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	0	0.0	0	0.0
Piggybk/towaway	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	11.5	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	6.4
Solids in bulk	5	1.6	0	0.0	2	3.1	0	0.0	3	2.1	2	5.6	7	14.3	0	0.0	0	0.0
Liquids in bulk	2	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	52	66.7
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	0	0.0
Logs/poles/lumber	0	0.0	0	0.0	1	1.5	0	0.0	9	6.3	3	8.3	0	0.0	17	65.4	0	0.0
Refrigerated foods	0	0.0	0	0.0	45	69.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Farm products	5	1.6	2	66.7	3	4.6	0	0.0	2	1.4	0	0.0	1	2.0	0	0.0	0	0.0
Live animals	0	0.0	0	0.0	0	0.0	1	100.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.3
Other	11	3.5	0	0.0	0	0.0	0	0.0	7	4.9	4	11.1	1	2.0	0	0.0	3	3.8
Cargo, unk. type	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Unknown	11	3.5	0	0.0	0	0.0	0	0.0	4	2.8	0	0.0	0	0.0	0	0.0	0	0.0
Total	314	100.0	3	100.0	65	100.0	1	100.0	144	100.0	36	100.0	49	100.0	26	100.0	78	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	0	0.0	6	28.6	211	48.3	0	0.0	33	27.3	178	52.4	0	0.0	666	40.4
General freight	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	186	11.3
Household goods	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	27	1.6
Building materials	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	17	1.0
Metal (coils, sheets)	0	0.0	0	0.0	2	0.5	0	0.0	0	0.0	2	0.6	0	0.0	21	1.3
Heavy machinery	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	1.2	0	0.0	8	0.5
Large objects	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	1.2	0	0.0	18	1.1
Motor vehicles	0	0.0	11	52.4	0	0.0	0	0.0	0	0.0	15	4.4	0	0.0	27	1.6
Piggybk/towaway	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	14	4.1	0	0.0	17	1.0
Gases in bulk	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	0.3
Solids in bulk	3	75.0	0	0.0	202	46.2	1	100.0	86	71.1	36	10.6	0	0.0	347	21.0
Liquids in bulk	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.9	0	0.0	57	3.5
Explosives	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.6	0	0.0	2	0.1
Logs/poles/lumber	0	0.0	0	0.0	2	0.5	0	0.0	0	0.0	0	0.0	0	0.0	32	1.9
Refrigerated foods	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	45	2.7
Farm products	1	25.0	0	0.0	8	1.8	0	0.0	0	0.0	2	0.6	0	0.0	24	1.5
Live animals	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
Other	0	0.0	0	0.0	3	0.7	0	0.0	0	0.0	75	22.1	0	0.0	104	6.3
Cargo, unk. type	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	11.1	1	0.1
Unknown	0	0.0	4	19.0	9	2.1	0	0.0	2	1.7	5	1.5	8	88.9	43	2.6
Total	4	100.0	21	100.0	437	100.0	1	100.0	121	100.0	340	100.0	9	100.0	1649	100.0

Table 5-6
Fatal Truck Involvements by Axle Combinations - Straight Truck Configurations
TIFA 1998

Straight only Power Unit Axles*	Strt/ 1 trlr Trailer Axles*	Total	
		No.	Pct.
2		863	52.9
3		381	23.4
4		135	8.3
5		32	2.0
6		4	0.2
2	1	16	1.0
2	2	85	5.2
2	3	14	0.9
3	2	70	4.3
3	3	5	0.3
3	4	1	0.1
4	2	1	0.1
4	3	5	0.3
4	4	4	0.2
4	6	1	0.1
5	2	1	0.1
5	4	1	0.1
5	5	2	0.1
6	5	1	0.1
Unknown		8	0.5
Total		1630	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 19 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 1998

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	134	35.1	78	34.1	32	39.0	70	16.0	25	20.7	3	11.5	104	28.7	0	0.0	446	27.0
Interstate For-hire	59	15.4	6	2.6	12	14.6	41	9.4	0	0.0	2	7.7	49	13.5	3	33.3	172	10.4
Intrastate Private	106	27.7	126	55.0	30	36.6	149	34.0	82	67.8	12	46.2	149	41.2	0	0.0	654	39.7
Intrastate For-hire	25	6.5	1	0.4	7	8.5	107	24.4	1	0.8	5	19.2	24	6.6	0	0.0	170	10.3
Government Owned	4	1.0	7	3.1	1	1.2	54	12.3	13	10.7	0	0.0	6	1.7	0	0.0	85	5.2
Daily Rental	41	10.7	4	1.7	0	0.0	2	0.5	0	0.0	0	0.0	1	0.3	0	0.0	48	2.9
Unknown	13	3.4	7	3.1	0	0.0	15	3.4	0	0.0	4	15.4	29	8.0	6	66.7	74	4.5
Total	382	100.0	229	100.0	82	100.0	438	100.0	121	100.0	26	100.0	362	100.0	9	100.0	1649	100.0

* Note: The Other category includes 21 auto carriers and one livestock carrier.

**Table 5-8
Fatal Truck Involvements by Trip Type and Cargo Body Style - Straight Trucks
TIFA 1998**

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	182	47.6	164	71.6	49	59.8	378	86.3	101	83.5	19	73.1	246	68.0	0	0.0	1139	69.1
51-100 miles	75	19.6	33	14.4	14	17.1	31	7.1	13	10.7	4	15.4	32	8.8	0	0.0	202	12.2
101-200	31	8.1	14	6.1	9	11.0	5	1.1	0	0.0	1	3.8	21	5.8	0	0.0	81	4.9
201-500	26	6.8	3	1.3	4	4.9	1	0.2	0	0.0	0	0.0	15	4.1	0	0.0	49	3.0
Over 500	14	3.7	1	0.4	1	1.2	0	0.0	0	0.0	0	0.0	8	2.2	0	0.0	24	1.5
Unk over-the-road dist	2	0.5	0	0.0	2	2.4	0	0.0	0	0.0	0	0.0	6	1.7	0	0.0	10	0.6
Unknown	52	13.6	14	6.1	3	3.7	23	5.3	7	5.8	2	7.7	34	9.4	9	100.0	144	8.7
Total	382	100.0	229	100.0	82	100.0	438	100.0	121	100.0	26	100.0	362	100.0	9	100.0	1649	100.0

* Note: The Other category includes 21 auto carriers and one livestock carrier.

**Table 5-9
Fatal Truck Involvements by Route Signing and Cargo Body Style - Straight Trucks
TIFA 1998**

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	68	17.8	22	9.6	7	8.5	33	7.5	9	7.4	0	0.0	51	14.1	6	66.7	196	11.9
US Highway	91	23.8	62	27.1	15	18.3	81	18.5	18	14.9	6	23.1	93	25.7	1	11.1	367	22.3
State Highway	101	26.4	82	35.8	29	35.4	170	38.8	37	30.6	17	65.4	101	27.9	0	0.0	537	32.6
County Road	29	7.6	27	11.8	22	26.8	75	17.1	11	9.1	3	11.5	58	16.0	0	0.0	225	13.6
Township	13	3.4	1	0.4	0	0.0	11	2.5	14	11.6	0	0.0	9	2.5	0	0.0	48	2.9
Municipality	61	16.0	26	11.4	4	4.9	48	11.0	27	22.3	0	0.0	30	8.3	1	11.1	197	11.9
Frontage Rd	4	1.0	0	0.0	0	0.0	0	0.0	2	1.7	0	0.0	3	0.8	0	0.0	9	0.5
Other	12	3.1	8	3.5	5	6.1	18	4.1	3	2.5	0	0.0	16	4.4	1	11.1	63	3.8
Unknown	3	0.8	1	0.4	0	0.0	2	0.5	0	0.0	0	0.0	1	0.3	0	0.0	7	0.4
Total	382	100.0	229	100.0	82	100.0	438	100.0	121	100.0	26	100.0	362	100.0	9	100.0	1649	100.0

* Note: The Other category includes 21 auto carriers and one livestock carrier.

**Table 5-10
Fatal Truck Involvements by Land Use and Cargo Body Style - Straight Trucks
TIFA 1998**

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	188	49.2	88	38.4	22	26.8	159	36.3	74	61.2	0	0.0	142	39.2	5	55.6	678	41.1
Rural	191	50.0	139	60.7	60	73.2	277	63.2	47	38.8	26	100.0	218	60.2	4	44.4	962	58.3
Unknown	3	0.8	2	0.9	0	0.0	2	0.5	0	0.0	0	0.0	2	0.6	0	0.0	9	0.5
Total	382	100.0	229	100.0	82	100.0	438	100.0	121	100.0	26	100.0	362	100.0	9	100.0	1649	100.0

* Note: The Other category includes 21 auto carriers and one livestock carrier.

Table 5-11
Fatal Truck Involvements by Light Condition and Cargo Body Style – Straight Trucks
TIFA 1998

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	294	77.0	191	83.4	67	81.7	376	85.8	109	90.1	21	80.8	241	66.6	7	77.8	1306	79.2
Dark	55	14.4	18	7.9	9	11.0	33	7.5	4	3.3	2	7.7	77	21.3	2	22.2	200	12.1
Dark but lighted	21	5.5	8	3.5	3	3.7	7	1.6	7	5.8	2	7.7	29	8.0	0	0.0	77	4.7
Dawn	10	2.6	10	4.4	0	0.0	16	3.7	0	0.0	0	0.0	5	1.4	0	0.0	41	2.5
Dusk	2	0.5	2	0.9	3	3.7	6	1.4	1	0.8	1	3.8	8	2.2	0	0.0	23	1.4
Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.6	0	0.0	2	0.1
Total	382	100.0	229	100.0	82	100.0	438	100.0	121	100.0	26	100.0	362	100.0	9	100.0	1649	100.0

* Note: The Other category includes 21 auto carriers and one livestock carrier.

Accident description

Table 5-12
Fatal Truck Involvements by Accident Type and Driver Injury Severity – Straight Trucks
TIFA 1998

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	118	51.3	7	5.4	6	3.0	0	0.0	10	1.2	0	0.0	141	8.6
Hit object in road	16	7.0	2	1.5	2	1.0	6	2.8	123	14.5	5	16.1	154	9.3
<i>Same direction, same trafficway</i>														
Rearend, truck striking	12	5.2	4	3.1	12	6.1	12	5.6	30	3.5	0	0.0	70	4.2
Rearend, truck struck	2	0.9	4	3.1	13	6.6	19	8.9	88	10.4	7	22.6	133	8.1
Sideswipe, in other's lane	1	0.4	2	1.5	2	1.0	0	0.0	4	0.5	0	0.0	9	0.5
Sideswipe, in truck's lane	2	0.9	0	0.0	0	0.0	0	0.0	10	1.2	0	0.0	12	0.7
<i>Opposite direction, same trafficway</i>														
Head-on, in other's lane	3	1.3	13	10.0	6	3.0	5	2.3	18	2.1	0	0.0	45	2.7
Head-on, in truck's lane	2	0.9	36	27.7	41	20.8	47	22.0	82	9.7	2	6.5	210	12.7
Sideswipe, in other's lane	2	0.9	2	1.5	2	1.0	4	1.9	7	0.8	0	0.0	17	1.0
Sideswipe, in truck's lane	3	1.3	11	8.5	15	7.6	11	5.1	56	6.6	0	0.0	96	5.8
<i>Change trafficway, one vehicle turning</i>														
Truck turn across path	3	1.3	0	0.0	2	1.0	11	5.1	47	5.5	0	0.0	63	3.8
Other turn across path	2	0.9	3	2.3	12	6.1	21	9.8	68	8.0	1	3.2	107	6.5
<i>Intersecting paths, both going straight</i>														
Truck into side of other	14	6.1	23	17.7	39	19.8	48	22.4	123	14.5	0	0.0	247	15.0
Other into side of truck	2	0.9	4	3.1	17	8.6	2	0.9	36	4.3	2	6.5	63	3.8
<i>Other accident types</i>														
Truck backed into other	0	0.0	0	0.0	0	0.0	0	0.0	18	2.1	0	0.0	18	1.1
Other backed into truck	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	1	3.2	2	0.1
Untripped roll	24	10.4	4	3.1	0	0.0	2	0.9	1	0.1	0	0.0	31	1.9
Other	23	10.0	14	10.8	27	13.7	24	11.2	120	14.2	9	29.0	217	13.2
Unknown	0	0.0	1	0.8	1	0.5	2	0.9	6	0.7	4	12.9	14	0.8
Total	230	100.0	130	100.0	197	100.0	214	100.0	847	100.0	31	100.0	1649	100.0

Table 5-13
Fatal Truck Involvements by Manner of Collision and Cargo Body Style - Straight Trucks
TIFA 1998

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	98	25.7	54	23.6	24	29.3	67	15.3	44	36.4	5	19.2	85	23.5	2	22.2	379	23.0
Rear-end	64	16.8	27	11.8	3	3.7	76	17.4	15	12.4	6	23.1	47	13.0	2	22.2	240	14.6
Head-on	82	21.5	48	21.0	21	25.6	122	27.9	14	11.6	10	38.5	87	24.0	2	22.2	386	23.4
Angle	120	31.4	84	36.7	31	37.8	153	34.9	48	39.7	5	19.2	129	35.6	3	33.3	573	34.7
Sideswipe:Same direction	7	1.8	6	2.6	1	1.2	6	1.4	0	0.0	0	0.0	5	1.4	0	0.0	25	1.5
Sideswipe:Opp. direction	11	2.9	10	4.4	2	2.4	14	3.2	0	0.0	0	0.0	9	2.5	0	0.0	46	2.8
Total	382	100.0	229	100.0	82	100.0	438	100.0	121	100.0	26	100.0	362	100.0	9	100.0	1649	100.0

* Note: The Other category includes 21 auto carriers and one livestock carrier.

Table 5-14
Fatal Truck Involvements by Driver Injury Severity and Cargo Body Style - Straight Trucks
TIFA 1998

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)	41	10.7	33	14.4	23	28.0	57	13.0	10	8.3	3	11.5	62	17.1	1	11.1	230	13.9
Incapacitating (A)	45	11.8	18	7.9	8	9.8	29	6.6	3	2.5	2	7.7	25	6.9	0	0.0	130	7.9
Non-incapacitating (B)	54	14.1	24	10.5	7	8.5	53	12.1	5	4.1	5	19.2	49	13.5	0	0.0	197	11.9
Complaint of pain (C)	35	9.2	37	16.2	6	7.3	67	15.3	11	9.1	1	3.8	55	15.2	2	22.2	214	13.0
No injury (O)	204	53.4	115	50.2	38	46.3	220	50.2	90	74.4	15	57.7	160	44.2	5	55.6	847	51.4
Unknown	3	0.8	2	0.9	0	0.0	12	2.7	2	1.7	0	0.0	11	3.0	1	11.1	31	1.9
Total	382	100.0	229	100.0	82	100.0	438	100.0	121	100.0	26	100.0	362	100.0	9	100.0	1649	100.0

* Note: The Other category includes 21 auto carriers and one livestock carrier.

Table 5-15
Fatal Truck Involvements by Driver Injury Severity and Rollover, Fire, Ejection Status - Straight Trucks
TIFA 1998

Fire, Rollover, and Ejection	Fatal injury (K)		Incapacitating (A)		Non-incapacitating (B)		Complaint of pain (C)		No. injury (O)		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Rollover only	51	22.2	39	30.0	35	17.8	22	10.3	26	3.1	0	0.0	173	10.5
Fire only	12	5.2	2	1.5	5	2.5	0	0.0	8	0.9	0	0.0	27	1.6
Ejection only	17	7.4	2	1.5	0	0.0	0	0.0	0	0.0	0	0.0	19	1.2
Rollover and fire	11	4.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	11	0.7
Rollover & ejection	67	29.1	8	6.2	1	0.5	0	0.0	0	0.0	0	0.0	76	4.6
Rollover, fire&eject	3	1.3	1	0.8	0	0.0	0	0.0	0	0.0	0	0.0	4	0.2
None	67	29.1	78	60.0	156	79.2	192	89.7	813	96.0	8	25.8	1314	79.7
Unknown	2	0.9	0	0.0	0	0.0	0	0.0	0	0.0	23	74.2	25	1.5
Total	230	100.0	130	100.0	197	100.0	214	100.0	847	100.0	31	100.0	1649	100.0

Tractors

This section provides descriptive statistics on tractor combinations involved in a fatal traffic accident in 1998. 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), pulling one or more semitrailers, as well as 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 3,421 of the 5,198 trucks (65.8%) involved in a fatal accident in 1998.
- 95.1% of the power units in tractor combinations were Class 8 (over 33,000 lbs.) Gross Vehicle Weight Rating (GVWR).
- The two lightest tractor configurations weighed 5,000 pounds or less, and both were bobtail tractors; the heaviest case tractor configuration had a loaded weight over 240,000 pounds.
- 80.2% of tractor combinations weighed between 25,001 and 80,000 pounds.
- 31.4% of tractor combinations were empty at the time of the accident; the most common cargo was general freight with 24.3% of tractor involvements.
- 90.0% of tractor-semitrailer configurations consisted of a three-axle tractor pulling a two-axle trailer. 56.7% of doubles (two trailers) consisted of a two-axle tractor with a one-axle first trailer and a two-axle second trailer.
- 66.8% of tractor combinations were operated by for-hire, interstate carriers; 18.3% of tractors were operated by private, interstate carriers.
- 22.8% of tractor combinations were on a local trip (within 50 miles of base) at the time of the accident; 18.8% were on a trip over 500 miles.
- 406 tractor drivers were fatally injured in a traffic accident; 53.4% of the fatalities occurred in ran-off-road crashes.

Configuration

Table 6-1
Fatal Truck Involvements by Tractor Configuration
TIFA 1998

Configuration	No.	Pct.
<i>Tractor, No Trailers</i>		
Bobtail Tractor	127	3.7
Tractor Carrying Cargo	8	0.2
<i>Subtotal</i>	135	3.9
<i>Tractor, 1 Trailer</i>		
Tractor and Semitrailer	3094	90.4
Tractor + Other	18	0.5
<i>Subtotal</i>	3112	91.0
<i>Tractor, 2 Trailers</i>		
Double with A Dolly	86	2.5
Double, B Train	4	0.1
Double with Unknown Dolly Type	1	0.0
Tractor + Semi + Full	73	2.1
<i>Subtotal</i>	164	4.8
<i>Tractor, 3 Trailers</i>		
Triple with A Dollies	1	0.0
<i>Subtotal</i>	1	0.0
<i>Other Tractor Combinations</i>		
Tractor + Semi + A Dolly	1	0.0
Tractor + Jeep + Semi + Jeep	1	0.0
Tractor + 2 Saddle-mount Tractors	1	0.0
Tractor + 3 Saddle-mount Tractors	4	0.1
Tractor + Saddle-mount + Cutaway Chassis	2	0.1
<i>Subtotal</i>	9	0.3
Total Tractors	3421	100.0

Table 6-2
Fatal Truck Involvements by Cargo Body Style and Truck Configuration - Tractor Combinations
TIFA 1998

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	135	100.0	0	0.0	0	0.0	0	0.0	7	77.8	142	4.2
Van	0	0.0	1241	39.9	72	43.9	1	100.0	1	11.1	1315	38.4
Open top van	0	0.0	43	1.4	2	1.2	0	0.0	0	0.0	45	1.3
Refrigerated van	0	0.0	394	12.7	3	1.8	0	0.0	0	0.0	397	11.6
Livestock carrier	0	0.0	33	1.1	0	0.0	0	0.0	0	0.0	33	1.0
Flatbed	0	0.0	470	15.1	24	14.6	0	0.0	1	11.1	495	14.5
Lowboy	0	0.0	85	2.7	0	0.0	0	0.0	0	0.0	85	2.5
Flatbed with equip.	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Flatbed with sides	0	0.0	29	0.9	5	3.0	0	0.0	0	0.0	34	1.0
Pole/logging	0	0.0	93	3.0	2	1.2	0	0.0	0	0.0	95	2.8
Tank:liquid/gaseous	0	0.0	272	8.7	5	3.0	0	0.0	0	0.0	277	8.1
Tank:dry bulk	0	0.0	51	1.6	6	3.7	0	0.0	0	0.0	57	1.7
Auto carrier	0	0.0	9	0.3	0	0.0	0	0.0	0	0.0	9	0.3
Dump	0	0.0	246	7.9	7	4.3	0	0.0	0	0.0	253	7.4
Hopper bottom	0	0.0	96	3.1	34	20.7	0	0.0	0	0.0	130	3.8
Refuse	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	4	0.1
Other	0	0.0	34	1.1	3	1.8	0	0.0	0	0.0	37	1.1
Unknown	0	0.0	9	0.3	1	0.6	0	0.0	0	0.0	10	0.3
Total	135	100.0	3112	100.0	164	100.0	1	100.0	9	100.0	3421	100.0

Table 6-3
Fatal Truck Involvements by Cargo Type and Truck Configuration – Tractor Combinations
TIFA 1998

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	127	94.1	902	29.0	43	26.2	0	0.0	1	11.1	1073	31.4
General freight	0	0.0	770	24.7	59	36.0	1	100.0	1	11.1	831	24.3
Household goods	0	0.0	15	0.5	0	0.0	0	0.0	0	0.0	15	0.4
Building materials	0	0.0	48	1.5	1	0.6	0	0.0	0	0.0	49	1.4
Metal (coils, sheets)	0	0.0	154	4.9	4	2.4	0	0.0	0	0.0	158	4.6
Heavy machinery	0	0.0	65	2.1	1	0.6	0	0.0	0	0.0	66	1.9
Large objects	0	0.0	56	1.8	6	3.7	0	0.0	0	0.0	62	1.8
Motor vehicles	0	0.0	5	0.2	0	0.0	0	0.0	0	0.0	5	0.1
Piggyback/towaway	8	5.9	0	0.0	0	0.0	0	0.0	0	0.0	8	0.2
Gases in bulk	0	0.0	17	0.5	1	0.6	0	0.0	0	0.0	18	0.5
Solids in bulk	0	0.0	314	10.1	20	12.2	0	0.0	0	0.0	334	9.8
Liquids in bulk	0	0.0	149	4.8	3	1.8	0	0.0	0	0.0	152	4.4
Logs/poles/lumber	0	0.0	138	4.4	5	3.0	0	0.0	0	0.0	143	4.2
Refrigerated foods	0	0.0	255	8.2	1	0.6	0	0.0	0	0.0	256	7.5
Mobile home	0	0.0	13	0.4	0	0.0	0	0.0	0	0.0	13	0.4
Farm products	0	0.0	81	2.6	11	6.7	0	0.0	0	0.0	92	2.7
Live animals	0	0.0	42	1.3	0	0.0	0	0.0	0	0.0	42	1.2
Other	0	0.0	14	0.4	3	1.8	0	0.0	0	0.0	17	0.5
Cargo, unk. type	0	0.0	8	0.3	0	0.0	0	0.0	0	0.0	8	0.2
Saddlemount tractor	0	0.0	0	0.0	0	0.0	0	0.0	7	77.8	7	0.2
Unknown	0	0.0	66	2.1	6	3.7	0	0.0	0	0.0	72	2.1
Total	135	100.0	3112	100.0	164	100.0	1	100.0	9	100.0	3421	100.0

Table 6-4
Fatal Truck Involvements by Cargo Type and Cargo Body Style - Tractor Combinations
TIFA 1998

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	127	89.4	348	26.5	16	35.6	69	17.4	8	24.2	107	21.6	32	37.6	3	100.0	15	44.1	35	36.8
General freight	0	0.0	748	56.9	3	6.7	49	12.3	0	0.0	26	5.3	0	0.0	0	0.0	0	0.0	0	0.0
Household goods	0	0.0	14	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Building materials	0	0.0	7	0.5	0	0.0	0	0.0	0	0.0	41	8.3	0	0.0	0	0.0	0	0.0	0	0.0
Metal (coils, sheets)	0	0.0	27	2.1	0	0.0	0	0.0	0	0.0	118	23.8	2	2.4	0	0.0	11	32.4	0	0.0
Heavy machinery	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0	21	4.2	43	50.6	0	0.0	0	0.0	0	0.0
Large objects	0	0.0	12	0.9	0	0.0	4	1.0	0	0.0	38	7.7	4	4.7	0	0.0	1	2.9	0	0.0
Motor vehicles	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Piggyback/towaway	8	5.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Gases in bulk	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Solids in bulk	0	0.0	66	5.0	19	42.2	12	3.0	0	0.0	24	4.8	2	2.4	0	0.0	3	8.8	0	0.0
Liquids in bulk	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Logs/poles/lumber	0	0.0	8	0.6	0	0.0	2	0.5	0	0.0	68	13.7	0	0.0	0	0.0	3	8.8	60	63.2
Refrigerated foods	0	0.0	2	0.2	0	0.0	252	63.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Mobile home	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Farm products	0	0.0	14	1.1	7	15.6	2	0.5	0	0.0	29	5.9	0	0.0	0	0.0	0	0.0	0	0.0
Live animals	0	0.0	0	0.0	0	0.0	2	0.5	25	75.8	14	2.8	0	0.0	0	0.0	0	0.0	0	0.0
Other	0	0.0	4	0.3	0	0.0	0	0.0	0	0.0	9	1.8	2	2.4	0	0.0	1	2.9	0	0.0
Cargo, unk. type	0	0.0	6	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Saddlemount tractor	7	4.9	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	0	0.0	57	4.3	0	0.0	5	1.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total	142	100.0	1315	100.0	45	100.0	397	100.0	33	100.0	495	100.0	85	100.0	3	100.0	34	100.0	95	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	107	38.6	23	40.4	4	44.4	107	42.3	60	46.2	0	0.0	12	32.4	0	0.0	1073	31.4
General freight	0	0.0	0	0.0	0	0.0	2	0.8	0	0.0	0	0.0	3	8.1	0	0.0	831	24.3
Household goods	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.7	0	0.0	15	0.4
Building materials	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	49	1.4
Metal (coils, sheets)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	158	4.6
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	66	1.9
Large objects	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	8.1	0	0.0	62	1.8
Motor vehicles	0	0.0	0	0.0	5	55.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	0.1
Piggyback/towaway	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8	0.2
Gases in bulk	18	6.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	18	0.5
Solids in bulk	0	0.0	34	59.6	0	0.0	129	51.0	40	30.8	4	100.0	1	2.7	0	0.0	334	9.8
Liquids in bulk	152	54.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	152	4.4
Logs/poles/lumber	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	5.4	0	0.0	143	4.2
Refrigerated foods	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	20.0	256	7.5
Mobile home	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	13	35.1	0	0.0	13	0.4
Farm products	0	0.0	0	0.0	0	0.0	12	4.7	28	21.5	0	0.0	0	0.0	0	0.0	92	2.7
Live animals	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.7	0	0.0	42	1.2
Other	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.7	0	0.0	17	0.5
Cargo, unk. type	0	0.0	0	0.0	0	0.0	2	0.8	0	0.0	0	0.0	0	0.0	0	0.0	8	0.2
Saddlemount tractor	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	0.2
Unknown	0	0.0	0	0.0	0	0.0	0	0.0	2	1.5	0	0.0	0	0.0	8	80.0	72	2.1
Total	277	100.0	57	100.0	9	100.0	253	100.0	130	100.0	4	100.0	37	100.0	10	100.0	3421	100.0

Table 6-5
Fatal Truck Involvements by Cargo Type and Cargo Body Style Groups - Tractor Combinations
TIFA 1998

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	433	24.6	157	25.4	130	38.9	167	43.6	8	24.2	35	36.8	16	32.0	127	83.6	1073	31.4
General freight	800	45.5	26	4.2	0	0.0	2	0.5	0	0.0	0	0.0	3	6.0	0	0.0	831	24.3
Household goods	14	0.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.0	0	0.0	15	0.4
Building materials	7	0.4	41	6.6	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	49	1.4
Metal (coils, sheets)	27	1.5	131	21.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	158	4.6
Heavy machinery	2	0.1	64	10.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	66	1.9
Large objects	16	0.9	43	7.0	0	0.0	0	0.0	0	0.0	0	0.0	3	6.0	0	0.0	62	1.8
Motor vehicles	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	10.0	0	0.0	5	0.1
Piggyback/towaway	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8	5.3	8	0.2
Gases in bulk	0	0.0	0	0.0	18	5.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	18	0.5
Solids in bulk	97	5.5	29	4.7	34	10.2	169	44.1	0	0.0	0	0.0	5	10.0	0	0.0	334	9.8
Liquids in bulk	0	0.0	0	0.0	152	45.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	152	4.4
Logs/poles/lumber	10	0.6	71	11.5	0	0.0	0	0.0	0	0.0	60	63.2	2	4.0	0	0.0	143	4.2
Refrigerated foods	254	14.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	1.3	256	7.5
Mobile home	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	13	26.0	0	0.0	13	0.4
Farm products	23	1.3	29	4.7	0	0.0	40	10.4	0	0.0	0	0.0	0	0.0	0	0.0	92	2.7
Live animals	2	0.1	14	2.3	0	0.0	0	0.0	25	75.8	0	0.0	1	2.0	0	0.0	42	1.2
Other	4	0.2	12	1.9	0	0.0	0	0.0	0	0.0	0	0.0	1	2.0	0	0.0	17	0.5
Cargo, unk. type	6	0.3	0	0.0	0	0.0	2	0.5	0	0.0	0	0.0	0	0.0	0	0.0	8	0.2
Saddlemount tractor	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	4.6	7	0.2
Unknown	62	3.5	0	0.0	0	0.0	2	0.5	0	0.0	0	0.0	0	0.0	8	5.3	72	2.1
Total	1757	100.0	617	100.0	334	100.0	383	100.0	33	100.0	95	100.0	50	100.0	152	100.0	3421	100.0

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

Table 6-6
Fatal Truck Involvements by Gross Vehicle Weight Rating and Truck Configuration – Tractor Combinations
TIFA 1998

Gross Vehicle Weight Rating (lbs)	Tractor, no trailers		Tractor, 1 trailer		Tractor, 2 trailers		Tractor, 3 trailers		Other tractor combs		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Class 6: 19,501-26,000	2	1.5	4	0.1	0	0.0	0	0.0	0	0.0	6	0.2
Class 7: 26,001-33,000	9	6.7	65	2.1	37	22.6	0	0.0	0	0.0	111	3.2
Class 8: 33,001+	116	85.9	3020	97.0	111	67.7	1	100.0	7	77.8	3255	95.1
Unknown	8	5.9	23	0.7	16	9.8	0	0.0	2	22.2	49	1.4
Total	135	100.0	3112	100.0	164	100.0	1	100.0	9	100.0	3421	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 1998

Gross Vehicle Weight Rating (lbs)	Van		Flatbed		Tank		Dump		Livestock		Pole/logging		Other*		None/unk		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Class 6: 19,501-26,000	3	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.0	2	1.3	6	0.2
Class 7: 26,001-33,000	80	4.6	10	1.6	1	0.3	6	1.6	0	0.0	0	0.0	5	10.0	9	5.9	111	3.2
Class 8: 33,001+	1659	94.4	598	96.9	332	99.4	368	96.1	33	100.0	94	98.9	43	86.0	128	84.2	3255	95.1
Unknown	15	0.9	9	1.5	1	0.3	9	2.3	0	0.0	1	1.1	1	2.0	13	8.6	49	1.4
Total	1757	100.0	617	100.0	334	100.0	383	100.0	33	100.0	95	100.0	50	100.0	152	100.0	3421	100.0

* Note: The Other category includes nine auto carriers and four 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 1998

Gross Combination Weight (lbs)	Tractor, no trailers		Tractor, 1 trailer		Tractor, 2 trailers		Tractor, 3 trailers		Other tractor combs		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<= 5,000	2	1.5	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
5,001-10,000	3	2.2	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
10,001-15,000	25	18.5	1	0.0	0	0.0	0	0.0	0	0.0	26	0.8
15,001-20,000	96	71.1	7	0.2	0	0.0	0	0.0	0	0.0	103	3.0
20,001-25,000	4	3.0	50	1.6	2	1.2	0	0.0	0	0.0	56	1.6
25,001-30,000	4	3.0	465	14.9	19	11.6	0	0.0	0	0.0	488	14.3
30,001-35,000	0	0.0	382	12.3	11	6.7	0	0.0	0	0.0	393	11.5
35,001-40,000	0	0.0	166	5.3	4	2.4	0	0.0	1	11.1	171	5.0
40,001-45,000	0	0.0	80	2.6	6	3.7	0	0.0	0	0.0	86	2.5
45,001-50,000	0	0.0	115	3.7	8	4.9	0	0.0	2	22.2	125	3.7
50,001-55,000	0	0.0	92	3.0	11	6.7	0	0.0	0	0.0	103	3.0
55,001-60,000	0	0.0	115	3.7	10	6.1	0	0.0	1	11.1	126	3.7
60,001-65,000	0	0.0	119	3.8	7	4.3	0	0.0	2	22.2	128	3.7
65,001-70,000	0	0.0	243	7.8	5	3.0	1	100.0	0	0.0	249	7.3
70,001-75,000	0	0.0	299	9.6	15	9.1	0	0.0	0	0.0	314	9.2
75,001-80,000	0	0.0	542	17.4	14	8.5	0	0.0	0	0.0	556	16.3
80,001-85,000	0	0.0	47	1.5	0	0.0	0	0.0	0	0.0	47	1.4
85,001-90,000	0	0.0	16	0.5	1	0.6	0	0.0	0	0.0	17	0.5
90,001-95,000	0	0.0	11	0.4	0	0.0	0	0.0	0	0.0	11	0.3
95,001-100,000	0	0.0	6	0.2	4	2.4	0	0.0	0	0.0	10	0.3
100,001-110,000	0	0.0	8	0.3	8	4.9	0	0.0	0	0.0	16	0.5
110,001-120,000	0	0.0	6	0.2	2	1.2	0	0.0	0	0.0	8	0.2
120,001-130,000	0	0.0	2	0.1	2	1.2	0	0.0	0	0.0	4	0.1
130,001-140,000	0	0.0	0	0.0	3	1.8	0	0.0	0	0.0	3	0.1
140,001-150,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150,001-160,000	0	0.0	0	0.0	1	0.6	0	0.0	0	0.0	1	0.0
160,001 and over *	0	0.0	0	0.0	1	0.6	0	0.0	0	0.0	1	0.0
Unknown	1	0.7	340	10.9	30	18.3	0	0.0	3	33.3	374	10.9
Total	135	100.0	3112	100.0	164	100.0	1	100.0	9	100.0	3421	100.0

* This case was a tractor with two trailers weighing over 240,000 lbs.

Table 6-9
Fatal Truck Involvements by Gross Combination Weight and Cargo Body Style – TRACTOR-SEMITRAILERS
TIFA 1998

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	6	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	0.2
20,001-25,000	21	1.3	10	1.7	12	3.7	6	1.8	0	0.0	0	0.0	0	0.0	0	0.0	49	1.6
25,001-30,000	192	11.4	90	15.4	70	21.7	78	22.8	4	12.1	26	28.3	3	9.4	0	0.0	463	15.0
30,001-35,000	237	14.1	53	9.1	28	8.7	49	14.3	4	12.1	6	6.5	4	12.5	0	0.0	381	12.3
35,001-40,000	103	6.1	22	3.8	17	5.3	15	4.4	2	6.1	0	0.0	4	12.5	0	0.0	163	5.3
40,001-45,000	59	3.5	17	2.9	2	0.6	0	0.0	0	0.0	0	0.0	2	6.3	0	0.0	80	2.6
45,001-50,000	85	5.1	26	4.4	2	0.6	0	0.0	0	0.0	0	0.0	2	6.3	0	0.0	115	3.7
50,001-55,000	66	3.9	16	2.7	4	1.2	4	1.2	0	0.0	2	2.2	0	0.0	0	0.0	92	3.0
55,001-60,000	66	3.9	26	4.4	1	0.3	11	3.2	4	12.1	2	2.2	5	15.6	0	0.0	115	3.7
60,001-65,000	63	3.8	31	5.3	5	1.5	13	3.8	0	0.0	5	5.4	2	6.3	0	0.0	119	3.8
65,001-70,000	149	8.9	54	9.2	18	5.6	14	4.1	1	3.0	4	4.3	2	6.3	0	0.0	242	7.8
70,001-75,000	184	11.0	59	10.1	18	5.6	20	5.8	2	6.1	11	12.0	3	9.4	2	22.2	299	9.7
75,001-80,000	207	12.3	105	17.9	108	33.4	89	26.0	8	24.2	22	23.9	3	9.4	0	0.0	542	17.5
80,001-85,000	9	0.5	11	1.9	14	4.3	13	3.8	0	0.0	0	0.0	0	0.0	0	0.0	47	1.5
85,001-90,000	2	0.1	6	1.0	4	1.2	0	0.0	0	0.0	2	2.2	2	6.3	0	0.0	16	0.5
90,001-95,000	4	0.2	4	0.7	1	0.3	2	0.6	0	0.0	0	0.0	0	0.0	0	0.0	11	0.4
95,001-100,000	0	0.0	2	0.3	1	0.3	1	0.3	0	0.0	2	2.2	0	0.0	0	0.0	6	0.2
100,001-110,000	0	0.0	4	0.7	0	0.0	4	1.2	0	0.0	0	0.0	0	0.0	0	0.0	8	0.3
110,001-120,000	0	0.0	2	0.3	0	0.0	4	1.2	0	0.0	0	0.0	0	0.0	0	0.0	6	0.2
120,001 and over	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	225	13.4	47	8.0	18	5.6	17	5.0	8	24.2	10	10.9	0	0.0	7	77.8	332	10.7
Total	1678	100.0	585	100.0	323	100.0	342	100.0	33	100.0	92	100.0	32	100.0	9	100.0	3094	100.0

Table 6-10
Fatal Truck Involvements by Gross Combination Weight and Cargo Body Style - DOUBLES
TIFA 1998

Gross Combination Weight (lbs)	Van		Flatbed		Tank		Dump		Pole/logging		Other		None/unk.		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
20,001-25,000	0	0.0	0	0.0	0	0.0	2	4.9	0	0.0	0	0.0	0	0.0	2	1.2
25,001-30,000	4	5.2	5	17.2	0	0.0	8	19.5	0	0.0	2	66.7	0	0.0	19	11.6
30,001-35,000	4	5.2	2	6.9	3	27.3	2	4.9	0	0.0	0	0.0	0	0.0	11	6.7
35,001-40,000	2	2.6	2	6.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	2.4
40,001-45,000	2	2.6	0	0.0	0	0.0	4	9.8	0	0.0	0	0.0	0	0.0	6	3.7
45,001-50,000	4	5.2	2	6.9	1	9.1	1	2.4	0	0.0	0	0.0	0	0.0	8	4.9
50,001-55,000	6	7.8	3	10.3	1	9.1	1	2.4	0	0.0	0	0.0	0	0.0	11	6.7
55,001-60,000	7	9.1	1	3.4	0	0.0	2	4.9	0	0.0	0	0.0	0	0.0	10	6.1
60,001-65,000	6	7.8	0	0.0	0	0.0	1	2.4	0	0.0	0	0.0	0	0.0	7	4.3
65,001-70,000	5	6.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	3.0
70,001-75,000	12	15.6	1	3.4	0	0.0	2	4.9	0	0.0	0	0.0	0	0.0	15	9.1
75,001-80,000	5	6.5	3	10.3	0	0.0	6	14.6	0	0.0	0	0.0	0	0.0	14	8.5
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
85,001-90,000	1	1.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.6
90,001-95,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
95,001-100,000	0	0.0	2	6.9	2	18.2	0	0.0	0	0.0	0	0.0	0	0.0	4	2.4
100,001-110,000	0	0.0	2	6.9	1	9.1	4	9.8	1	50.0	0	0.0	0	0.0	8	4.9
110,001-120,000	0	0.0	1	3.4	1	9.1	0	0.0	0	0.0	0	0.0	0	0.0	2	1.2
120,001-130,000	0	0.0	0	0.0	1	9.1	1	2.4	0	0.0	0	0.0	0	0.0	2	1.2
130,001-140,000	1	1.3	2	6.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	1.8
140,001-150,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150,001-160,000	0	0.0	1	3.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.6
160,001 and over *	0	0.0	0	0.0	0	0.0	0	0.0	1	50.0	0	0.0	0	0.0	1	0.6
Unknown	18	23.4	2	6.9	1	9.1	7	17.1	0	0.0	1	33.3	1	100.0	30	18.3
Total	77	100.0	29	100.0	11	100.0	41	100.0	2	100.0	3	100.0	1	100.0	164	100.0

* This case was a pole/logging truck weighing over 240,000 lbs.

Table 6-11
Fatal Truck Involvements by Empty Combination Weight and Truck Configuration - Tractor Combinations
TIFA 1998

Empty Combination Wt. (lbs)	Tractor, no trailers		Tractor, 1 trailer		Tractor, 2 trailers		Tractor, 3 trailers		Other tractor combs		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
5,001-10,000	3	2.2	1	0.0	0	0.0	0	0.0	2	22.2	6	0.2
10,001-15,000	26	19.3	4	0.1	0	0.0	0	0.0	0	0.0	30	0.9
15,001-20,000	104	77.0	42	1.3	0	0.0	0	0.0	5	55.6	151	4.4
20,001-25,000	1	0.7	137	4.4	4	2.4	0	0.0	1	11.1	143	4.2
25,001-30,000	0	0.0	1304	41.9	49	29.9	0	0.0	0	0.0	1353	39.5
30,001-35,000	0	0.0	1291	41.5	51	31.1	0	0.0	0	0.0	1342	39.2
35,001-40,000	0	0.0	231	7.4	27	16.5	1	100.0	1	11.1	260	7.6
40,001-45,000	0	0.0	16	0.5	11	6.7	0	0.0	0	0.0	27	0.8
45,001-50,000	0	0.0	6	0.2	6	3.7	0	0.0	0	0.0	12	0.4
50,001-55,000	0	0.0	0	0.0	3	1.8	0	0.0	0	0.0	3	0.1
55,001-60,000	0	0.0	0	0.0	2	1.2	0	0.0	0	0.0	2	0.1
60,001-65,000	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2	0.1
65,001 and over	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	3	0.1
Unknown	1	0.7	75	2.4	11	6.7	0	0.0	0	0.0	87	2.5
Total	135	100.0	3112	100.0	164	100.0	1	100.0	9	100.0	3421	100.0

Table 6-12
Fatal Truck Involvements by Empty Combination Weight and Cargo Body Style – TRACTOR-SEMITRAILERS
TIFA 1998

Empty Combination Wt. (lbs)	Van		Flatbed		Tank		Dump		Livestock		Pole/logging		Other		None/unk		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
15,001-20,000	28	1.7	0	0.0	0	0.0	0	0.0	0	0.0	2	2.2	1	3.1	0	0.0	31	1.0
20,001-25,000	61	3.6	25	4.3	27	8.4	13	3.8	0	0.0	9	9.8	2	6.3	0	0.0	137	4.4
25,001-30,000	563	33.6	331	56.6	163	50.5	156	45.6	13	39.4	69	75.0	9	28.1	0	0.0	1304	42.1
30,001-35,000	851	50.7	193	33.0	81	25.1	129	37.7	20	60.6	9	9.8	6	18.8	2	22.2	1291	41.7
35,001-40,000	130	7.7	23	3.9	32	9.9	39	11.4	0	0.0	1	1.1	6	18.8	0	0.0	231	7.5
40,001-45,000	2	0.1	8	1.4	3	0.9	2	0.6	0	0.0	0	0.0	1	3.1	0	0.0	16	0.5
45,001-50,000	2	0.1	2	0.3	0	0.0	0	0.0	0	0.0	0	0.0	2	6.3	0	0.0	6	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	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60,001-65,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	6.3	0	0.0	2	0.1
65,001 and over	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	2	6.3	0	0.0	3	0.1
Unknown	41	2.4	3	0.5	16	5.0	3	0.9	0	0.0	2	2.2	1	3.1	7	77.8	73	2.4
Total	1678	100.0	585	100.0	323	100.0	342	100.0	33	100.0	92	100.0	32	100.0	9	100.0	3094	100.0

Table 6-13
Fatal Truck Involvements by Empty Combination Weight and Cargo Body Style - DOUBLES
TIFA 1998

Empty Combination Wt. (lbs)	Van		Flatbed		Tank		Dump		Pole/logging		Other		None/unk.		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
20,001-25,000	0	0.0	1	3.4	0	0.0	3	7.3	0	0.0	0	0.0	0	0.0	4	2.4
25,001-30,000	18	23.4	11	37.9	0	0.0	18	43.9	0	0.0	2	66.7	0	0.0	49	29.9
30,001-35,000	37	48.1	6	20.7	4	36.4	4	9.8	0	0.0	0	0.0	0	0.0	51	31.1
35,001-40,000	17	22.1	5	17.2	3	27.3	1	2.4	1	50.0	0	0.0	0	0.0	27	16.5
40,001-45,000	0	0.0	3	10.3	1	9.1	7	17.1	0	0.0	0	0.0	0	0.0	11	6.7
45,001-50,000	2	2.6	1	3.4	1	9.1	2	4.9	0	0.0	0	0.0	0	0.0	6	3.7
50,001-55,000	1	1.3	1	3.4	0	0.0	1	2.4	0	0.0	0	0.0	0	0.0	3	1.8
55,001 and over	0	0.0	0	0.0	0	0.0	2	4.9	0	0.0	0	0.0	0	0.0	2	1.2
Unknown	2	2.6	1	3.4	2	18.2	3	7.3	1	50.0	1	33.3	1	100.0	11	6.7
Total	77	100.0	29	100.0	11	100.0	41	100.0	2	100.0	3	100.0	1	100.0	164	100.0

Table 6-14A
Fatal Truck Involvements by Axle Combinations – Tractors, No Trailers
TIFA 1998

Power Unit Axles	No.	Pct.
2	26	19.3
3	109	80.7
Total	135	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 1998

Power Unit Axles	1st Trailer Axles	No.	Pct.
2	1	53	1.7
2	2	94	3.0
3	1	13	0.4
3	2	2786	90.0
3	3	91	2.9
3	4	16	0.5
3	6	3	0.1
3	7	1	0.0
3	8	2	0.1
4	2	6	0.2
4	3	3	0.1
4	4	4	0.1
5	2	3	0.1
5	5	2	0.1
Unknown		17	0.5
Total		3094	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 1998

Power Unit Axles	1st Trailer Axles	2nd Trailer Axles	No.	Pct.
2	1	2	93	56.7
3	1	2	25	15.2
3	2	2	11	6.7
3	2	3	6	3.7
3	2	4	7	4.3
3	3	2	3	1.8
3	3	4	1	0.6
3	3	5	5	3.0
3	4	2	3	1.8
3	4	3	1	0.6
3	5	3	1	0.6
4	2	2	1	0.6
4	2	5	1	0.6
4	3	3	1	0.6
4	3	4	4	2.4
Unknown			1	0.6
Total			164	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 1998

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	10	7.4	600	19.3	14	8.5	0	0.0	3	33.3	627	18.3
Interstate For-hire	84	62.2	2095	67.3	100	61.0	1	100.0	5	55.6	2285	66.8
Intrastate Private	15	11.1	193	6.2	15	9.1	0	0.0	1	11.1	224	6.5
Intrastate For-hire	3	2.2	156	5.0	27	16.5	0	0.0	0	0.0	186	5.4
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	2	0.1	0	0.0	0	0.0	0	0.0	2	0.1
Unknown	23	17.0	56	1.8	8	4.9	0	0.0	0	0.0	87	2.5
Total	135	100.0	3112	100.0	164	100.0	1	100.0	9	100.0	3421	100.0

Table 6-16
Fatal Truck Involvements by Carrier Type and Cargo Body Style - Tractor Combinations
TIFA 1998

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	300	17.1	128	20.7	89	26.6	50	13.1	16	48.5	22	23.2	10	20.0	12	7.9	627	18.3
Interstate For-hire	1337	76.1	385	62.4	202	60.5	192	50.1	17	51.5	29	30.5	30	60.0	93	61.2	2285	66.8
Intrastate Private	57	3.2	62	10.0	22	6.6	41	10.7	0	0.0	22	23.2	4	8.0	16	10.5	224	6.5
Intrastate For-hire	29	1.7	29	4.7	20	6.0	82	21.4	0	0.0	18	18.9	5	10.0	3	2.0	186	5.4
Government Owned	6	0.3	0	0.0	0	0.0	4	1.0	0	0.0	0	0.0	0	0.0	0	0.0	10	0.3
Daily Rental	0	0.0	2	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
Unknown	28	1.6	11	1.8	1	0.3	14	3.7	0	0.0	4	4.2	1	2.0	28	18.4	87	2.5
Total	1757	100.0	617	100.0	334	100.0	383	100.0	33	100.0	95	100.0	50	100.0	152	100.0	3421	100.0

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

Table 6-17
Fatal Truck Involvements by Trip Type and Cargo Body Style - Tractor Combinations
TIFA 1998

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	219	12.5	162	26.3	101	30.2	200	52.2	2	6.1	53	55.8	11	22.0	32	21.1	780	22.8
51-100 miles	197	11.2	73	11.8	67	20.1	88	23.0	8	24.2	31	32.6	6	12.0	11	7.2	481	14.1
101-200	222	12.6	68	11.0	59	17.7	38	9.9	4	12.1	1	1.1	1	2.0	7	4.6	400	11.7
201-500	349	19.9	112	18.2	48	14.4	19	5.0	9	27.3	2	2.1	12	24.0	3	2.0	554	16.2
Over 500	462	26.3	114	18.5	25	7.5	15	3.9	8	24.2	0	0.0	12	24.0	8	5.3	644	18.8
Unk over-the-road dist	63	3.6	15	2.4	4	1.2	2	0.5	0	0.0	1	1.1	2	4.0	2	1.3	89	2.6
Unknown	245	13.9	73	11.8	30	9.0	21	5.5	2	6.1	7	7.4	6	12.0	89	58.6	473	13.8
Total	1757	100.0	617	100.0	334	100.0	383	100.0	33	100.0	95	100.0	50	100.0	152	100.0	3421	100.0

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

Table 6-18
Fatal Truck Involvements by Route Signing and Cargo Body Style - Tractor Combinations
TIFA 1998

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	759	43.2	135	21.9	68	20.4	45	11.7	4	12.1	2	2.1	11	22.0	35	23.0	1059	31.0
US Highway	459	26.1	200	32.4	116	34.7	102	26.6	14	42.4	31	32.6	14	28.0	38	25.0	974	28.5
State Highway	374	21.3	186	30.1	108	32.3	143	37.3	9	27.3	47	49.5	19	38.0	47	30.9	933	27.3
County Road	47	2.7	52	8.4	20	6.0	60	15.7	4	12.1	9	9.5	5	10.0	8	5.3	205	6.0
Township	10	0.6	4	0.6	0	0.0	2	0.5	0	0.0	0	0.0	0	0.0	2	1.3	18	0.5
Municipality	71	4.0	30	4.9	12	3.6	18	4.7	0	0.0	0	0.0	1	2.0	16	10.5	148	4.3
Frontage Rd	13	0.7	2	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	15	0.4
Other	17	1.0	8	1.3	10	3.0	13	3.4	2	6.1	2	2.1	0	0.0	6	3.9	58	1.7
Unknown	7	0.4	0	0.0	0	0.0	0	0.0	0	0.0	4	4.2	0	0.0	0	0.0	11	0.3
Total	1757	100.0	617	100.0	334	100.0	383	100.0	33	100.0	95	100.0	50	100.0	152	100.0	3421	100.0

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

Table 6-19
Fatal Truck Involvements by Land Use and Cargo Body Style - Tractor Combinations
TIFA 1998

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	611	34.8	156	25.3	89	26.6	89	23.2	5	15.2	10	10.5	11	22.0	61	40.1	1032	30.2
Rural	1139	64.8	459	74.4	245	73.4	294	76.8	28	84.8	81	85.3	39	78.0	91	59.9	2376	69.5
Unknown	7	0.4	2	0.3	0	0.0	0	0.0	0	0.0	4	4.2	0	0.0	0	0.0	13	0.4
Total	1757	100.0	617	100.0	334	100.0	383	100.0	33	100.0	95	100.0	50	100.0	152	100.0	3421	100.0

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

Table 6-20
Fatal Truck Involvements by Light Condition and Cargo Body Style - Tractor Combinations
TIFA 1998

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	956	54.4	363	58.8	201	60.2	298	77.8	18	54.5	76	80.0	38	76.0	104	68.4	2054	60.0
Dark	549	31.2	193	31.3	88	26.3	48	12.5	15	45.5	12	12.6	7	14.0	27	17.8	939	27.4
Dark but Lighted	166	9.4	31	5.0	27	8.1	16	4.2	0	0.0	2	2.1	2	4.0	16	10.5	260	7.6
Dawn	57	3.2	18	2.9	17	5.1	17	4.4	0	0.0	5	5.3	0	0.0	4	2.6	118	3.4
Dusk	26	1.5	12	1.9	1	0.3	4	1.0	0	0.0	0	0.0	3	6.0	0	0.0	46	1.3
Unknown	3	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.7	4	0.1
Total	1757	100.0	617	100.0	334	100.0	383	100.0	33	100.0	95	100.0	50	100.0	152	100.0	3421	100.0

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

Accident description

Table 6-21
Fatal Truck Involvements by Manner of Collision and Cargo Body Style - Tractor Combinations
TIFA 1998

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	370	21.1	100	16.2	88	26.3	49	12.8	11	33.3	18	18.9	5	10.0	42	27.6	683	20.0
Rear-end	395	22.5	118	19.1	39	11.7	52	13.6	0	0.0	11	11.6	10	20.0	25	16.4	650	19.0
Head-on	402	22.9	131	21.2	70	21.0	99	25.8	12	36.4	23	24.2	17	34.0	30	19.7	784	22.9
Angle	474	27.0	235	38.1	115	34.4	164	42.8	8	24.2	40	42.1	14	28.0	45	29.6	1095	32.0
Sideswipe:Same dir	58	3.3	20	3.2	14	4.2	12	3.1	0	0.0	0	0.0	4	8.0	4	2.6	112	3.3
Sideswipe:Opp dir	44	2.5	13	2.1	6	1.8	7	1.8	2	6.1	1	1.1	0	0.0	5	3.3	78	2.3
Unknown	14	0.8	0	0.0	2	0.6	0	0.0	0	0.0	2	2.1	0	0.0	1	0.7	19	0.6
Total	1757	100.0	617	100.0	334	100.0	383	100.0	33	100.0	95	100.0	50	100.0	152	100.0	3421	100.0

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

Table 6-22
Fatal Truck Involvements by Accident Type and Driver Injury Severity - Tractor Combinations
TIFA 1998

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	217	53.4	6	4.3	9	2.8	6	1.6	15	0.7	0	0.0	0	0.0	253	7.4
Hit object in road	22	5.4	2	1.4	0	0.0	4	1.1	214	10.1	2	100.0	3	5.9	247	7.2
<i>Same direction, same trafficway</i>																
Rearend, truck striking	38	9.4	18	12.9	30	9.2	30	8.0	127	6.0	0	0.0	2	3.9	245	7.2
Rearend, truck struck	1	0.2	0	0.0	18	5.5	28	7.5	242	11.4	0	0.0	20	39.2	309	9.0
Sideswipe, in other's lane	4	1.0	0	0.0	6	1.8	6	1.6	17	0.8	0	0.0	3	5.9	36	1.1
Sideswipe, in truck's lane	5	1.2	2	1.4	7	2.1	7	1.9	60	2.8	0	0.0	2	3.9	83	2.4
<i>Opposite direction, same trafficway</i>																
Head-on, in other's lane	7	1.7	4	2.9	10	3.1	12	3.2	31	1.5	0	0.0	0	0.0	64	1.9
Head-on, in truck's lane	10	2.5	28	20.0	70	21.5	74	19.8	176	8.3	0	0.0	2	3.9	360	10.5
Sideswipe, in other's lane	6	1.5	1	0.7	7	2.1	7	1.9	14	0.7	0	0.0	0	0.0	35	1.0
Sideswipe, in truck's lane	3	0.7	14	10.0	17	5.2	25	6.7	203	9.6	0	0.0	1	2.0	263	7.7
<i>Change trafficway, one vehicle turning</i>																
Truck turn across path	0	0.0	0	0.0	6	1.8	10	2.7	102	4.8	0	0.0	0	0.0	118	3.4
Other turn across path	5	1.2	13	9.3	28	8.6	32	8.6	126	5.9	0	0.0	1	2.0	205	6.0
<i>Intersecting paths, both going straight</i>																
Truck into side of other	10	2.5	19	13.6	34	10.4	24	6.4	207	9.8	0	0.0	0	0.0	294	8.6
Other into side of truck	4	1.0	5	3.6	10	3.1	29	7.8	133	6.3	0	0.0	0	0.0	181	5.3
<i>Other accident types</i>																
Truck backed into other	1	0.2	0	0.0	2	0.6	3	0.8	28	1.3	0	0.0	0	0.0	34	1.0
Untripped roll	37	9.1	4	2.9	12	3.7	7	1.9	5	0.2	0	0.0	0	0.0	65	1.9
Other	35	8.6	20	14.3	60	18.4	68	18.2	408	19.2	0	0.0	9	17.6	600	17.5
Unknown	1	0.2	4	2.9	0	0.0	2	0.5	14	0.7	0	0.0	8	15.7	29	0.8
Total	406	100.0	140	100.0	326	100.0	374	100.0	2122	100.0	2	100.0	51	100.0	3421	100.0

Table 6-23
Fatal Truck Involvements by Driver Injury Severity and Cargo Body Style - Tractor Combinations
TIFA 1998

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)	180	10.2	76	12.3	70	21.0	29	7.6	7	21.2	17	17.9	6	12.0	21	13.8	406	11.9
Incapacitating (A)	62	3.5	27	4.4	14	4.2	20	5.2	0	0.0	6	6.3	6	12.0	5	3.3	140	4.1
Non-incapacitating (B)	154	8.8	49	7.9	31	9.3	56	14.6	0	0.0	11	11.6	7	14.0	18	11.8	326	9.5
Complaint of pain (C)	188	10.7	58	9.4	30	9.0	62	16.2	6	18.2	14	14.7	2	4.0	14	9.2	374	10.9
No injury (O)	1140	64.9	398	64.5	185	55.4	214	55.9	20	60.6	47	49.5	29	58.0	89	58.6	2122	62.0
Died Prior to accident	0	0.0	0	0.0	2	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
Unknown	33	1.9	9	1.5	2	0.6	2	0.5	0	0.0	0	0.0	0	0.0	5	3.3	51	1.5
Total	1757	100.0	617	100.0	334	100.0	383	100.0	33	100.0	95	100.0	50	100.0	152	100.0	3421	100.0

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

Table 6-24
Fatal Truck Involvements by Driver Injury Severity and Rollover, Fire, Ejection Status - Tractor Combinations
TIFA 1998

Rollover, Fire, and Ejection	Fatal injury (K)		Incapacitating (A)		Non-incapacitating (B)		Complaint of pain (C)		No injury (O)		Died prior to accident		Unknown		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Rollover only	137	33.7	31	22.1	59	18.1	42	11.2	56	2.6	0	0.0	3	5.9	328	9.6
Fire only	50	12.3	23	16.4	22	6.7	24	6.4	58	2.7	0	0.0	0	0.0	177	5.2
Ejection only	25	6.2	7	5.0	3	0.9	0	0.0	0	0.0	0	0.0	0	0.0	35	1.0
Rollover and fire	30	7.4	4	2.9	5	1.5	4	1.1	4	0.2	0	0.0	0	0.0	47	1.4
Rollover and ejection	58	14.3	4	2.9	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	63	1.8
Fire and ejection	9	2.2	0	0.0	0	0.0	2	0.5	0	0.0	0	0.0	0	0.0	11	0.3
Rollover, fire & eject	6	1.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	0.2
None	90	22.2	71	50.7	234	71.8	302	80.7	2002	94.3	2	100.0	14	27.5	2715	79.4
Unknown	1	0.2	0	0.0	2	0.6	0	0.0	2	0.1	0	0.0	34	66.7	39	1.1
Total	406	100.0	140	100.0	326	100.0	374	100.0	2122	100.0	2	100.0	51	100.0	3421	100.0

Table 6-25
Fatal Truck Involvements by Rollover Status and Gross Combination Weight – TRACTOR-SEMITRAILERS
TIFA 1998

Gross Combination Wt. (lbs)	No rollover		First event		Subsequent event		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
15,001-20,000	6	0.2	0	0.0	0	0.0	6	0.2
20,001-25,000	45	1.7	0	0.0	4	1.4	49	1.6
25,001-30,000	450	16.7	1	0.8	12	4.2	463	15.0
30,001-35,000	362	13.5	1	0.8	18	6.3	381	12.3
35,001-40,000	154	5.7	0	0.0	9	3.2	163	5.3
40,001-45,000	74	2.8	3	2.5	3	1.1	80	2.6
45,001-50,000	104	3.9	2	1.7	9	3.2	115	3.7
50,001-55,000	79	2.9	2	1.7	11	3.9	92	3.0
55,001-60,000	102	3.8	1	0.8	12	4.2	115	3.7
60,001-65,000	93	3.5	14	11.6	12	4.2	119	3.8
65,001-70,000	206	7.7	14	11.6	22	7.7	242	7.8
70,001-75,000	243	9.0	20	16.5	36	12.7	299	9.7
75,001-80,000	407	15.1	44	36.4	91	32.0	542	17.5
80,001-85,000	30	1.1	4	3.3	13	4.6	47	1.5
85,001-90,000	16	0.6	0	0.0	0	0.0	16	0.5
90,001-95,000	7	0.3	1	0.8	3	1.1	11	0.4
95,001-100,000	3	0.1	2	1.7	1	0.4	6	0.2
100,001-110,000	8	0.3	0	0.0	0	0.0	8	0.3
110,001-120,000	4	0.1	0	0.0	2	0.7	6	0.2
120,001 and over	2	0.1	0	0.0	0	0.0	2	0.1
Unknown	294	10.9	12	9.9	26	9.2	332	10.7
Total	2689	100.0	121	100.0	284	100.0	3094	100.0

Table 6-26
Fatal Truck Involvements by Jackknife Status and Gross Combination Weight – TRACTOR-SEMITRAILERS
TIFA 1998

Gross Combination Wt. (lbs)	No jackknife		First event		Subsequent event		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
15,001-20,000	0	0.0	4	5.1	2	1.2	6	0.2
20,001-25,000	49	1.7	0	0.0	0	0.0	49	1.6
25,001-30,000	402	14.1	23	29.5	38	22.0	463	15.0
30,001-35,000	338	11.9	11	14.1	32	18.5	381	12.3
35,001-40,000	153	5.4	2	2.6	8	4.6	163	5.3
40,001-45,000	73	2.6	2	2.6	5	2.9	80	2.6
45,001-50,000	106	3.7	4	5.1	5	2.9	115	3.7
50,001-55,000	77	2.7	7	9.0	8	4.6	92	3.0
55,001-60,000	113	4.0	0	0.0	2	1.2	115	3.7
60,001-65,000	103	3.6	5	6.4	11	6.4	119	3.8
65,001-70,000	235	8.3	0	0.0	7	4.0	242	7.8
70,001-75,000	289	10.2	3	3.8	7	4.0	299	9.7
75,001-80,000	508	17.9	12	15.4	22	12.7	542	17.5
80,001-85,000	46	1.6	0	0.0	1	0.6	47	1.5
85,001-90,000	14	0.5	0	0.0	2	1.2	16	0.5
90,001-95,000	10	0.4	1	1.3	0	0.0	11	0.4
95,001-100,000	6	0.2	0	0.0	0	0.0	6	0.2
100,001-110,000	8	0.3	0	0.0	0	0.0	8	0.3
110,001-120,000	6	0.2	0	0.0	0	0.0	6	0.2
120,001 and over	2	0.1	0	0.0	0	0.0	2	0.1
Unknown	305	10.7	4	5.1	23	13.3	332	10.7
Total	2843	100.0	78	100.0	173	100.0	3094	100.0

Longer combination vehicles

This section provides descriptive statistics on longer combination vehicles (LCVs) involved in a fatal traffic accident in 1998. 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 1998

Configuration	No.	Pct.
<i>Longer Combination Vehicles</i>		
Double with A dolly	14	8.5
Double, B train	4	2.4
Tractor + Semi + Full	27	16.4
Triple with A dollies	1	0.6
<i>Subtotal</i>	46	27.9
<i>Non-LCV Tractor and Two Trailers</i>		
<i>STAA Double</i>		
Double with A dolly	62	37.6
Tractor + Semi + Full	42	25.5
<i>Subtotal</i>	104	63.0
<i>Unknown Double</i>		
Double with A dolly	10	6.1
Double with unknown dolly	1	0.6
Tractor + Semi + Full	4	2.4
<i>Subtotal</i>	15	9.1
Total	165	100.0

Table 7-2
Fatal Truck Involvements of LCVs and "STAA Doubles" by Year
TIFA 1994-1998

Combination Type	1994		1995		1996		1997		1998		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<i>Longer Combination Vehicles</i>												
Overlength	10	6.0	19	10.7	14	7.7	22	10.0	23	13.9	88	9.7
Overweight	17	10.2	10	5.6	9	5.0	15	6.8	4	2.4	55	6.0
Both	13	7.8	20	11.3	5	2.8	14	6.3	18	10.9	70	7.7
Triple	2	1.2	1	0.6	3	1.7	5	2.3	1	0.6	12	1.3
<i>Subtotal</i>	42	25.3	50	28.2	31	17.1	56	25.3	46	27.9	225	24.7
<i>Non-LCV Tractor and Two Trailers</i>												
STAA Double	116	69.9	122	68.9	145	80.1	152	68.8	104	63.0	639	70.2
Unknown Double	8	4.8	5	2.8	5	2.8	13	5.9	15	9.1	46	5.1
Total	166	100.0	177	100.0	181	100.0	221	100.0	165	100.0	910	100.0

Table 7-3
Fatal Truck Involvements for Common LCV Types
TIFA 1998

Combination Type	No.	Pct.
Rocky Mountain double	16	34.8
Turnpike double	3	6.5
Other LCV	22	47.8
Overweight	4	8.7
Triple	1	2.2
Total	46	100.0

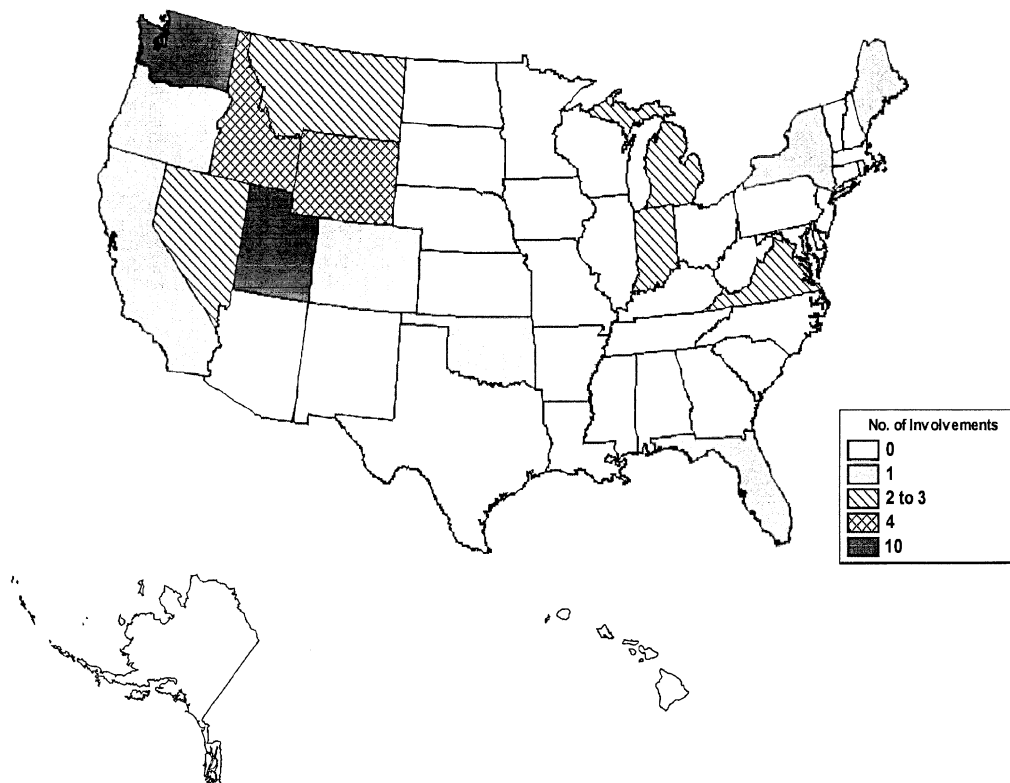


Figure 7-1: Fatal LCV Involvements by State, TIFA 1998

Table 7-4
Fatal Truck Involvements by State and LCV Type
TIFA 1998

State	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
California	1	4.3	0	0.0	0	0.0	0	0.0	1	2.2
Colorado	1	4.3	0	0.0	0	0.0	0	0.0	1	2.2
Florida	0	0.0	1	25.0	0	0.0	0	0.0	1	2.2
Idaho	1	4.3	0	0.0	3	16.7	0	0.0	4	8.7
Indiana	0	0.0	1	25.0	1	5.6	0	0.0	2	4.3
Maine	0	0.0	0	0.0	1	5.6	0	0.0	1	2.2
Michigan	1	4.3	1	25.0	1	5.6	0	0.0	3	6.5
Montana	1	4.3	0	0.0	1	5.6	0	0.0	2	4.3
Nevada	2	8.7	0	0.0	0	0.0	0	0.0	2	4.3
New York	0	0.0	0	0.0	1	5.6	0	0.0	1	2.2
Oklahoma	0	0.0	0	0.0	0	0.0	1	100.0	1	2.2
Oregon	1	4.3	0	0.0	0	0.0	0	0.0	1	2.2
Utah	7	30.4	0	0.0	3	16.7	0	0.0	10	21.7
Virginia	2	8.7	0	0.0	0	0.0	0	0.0	2	4.3
Washington	3	13.0	1	25.0	6	33.3	0	0.0	10	21.7
Wyoming	3	13.0	0	0.0	1	5.6	0	0.0	4	8.7
Total	23	100.0	4	100.0	18	100.0	1	100.0	46	100.0

Table 7-5
Fatal Truck Involvements by Total Length and LCV Type
TIFA 1998

Length (in feet)	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
71-75	1	4.3	3	75.0	3	16.7	0	0.0	7	15.2
76-80	3	13.0	0	0.0	1	5.6	0	0.0	4	8.7
81-85	2	8.7	0	0.0	6	33.3	0	0.0	8	17.4
86-90	6	26.1	0	0.0	1	5.6	0	0.0	7	15.2
91-95	4	17.4	0	0.0	4	22.2	0	0.0	8	17.4
96-100	2	8.7	0	0.0	1	5.6	0	0.0	3	6.5
101 +	3	13.0	0	0.0	2	11.1	1	100.0	6	13.0
Unknown	2	8.7	1	25.0	0	0.0	0	0.0	3	6.5
Total	23	100.0	4	100.0	18	100.0	1	100.0	46	100.0

Table 7-6
Fatal Truck Involvements by Gross Combination Weight and LCV Type
TIFA 1998

Gross Combination Weight (in lbs)	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
30,001-35,000	3	13.0	0	0.0	0	0.0	0	0.0	3	6.5
35,001-40,000	3	13.0	0	0.0	0	0.0	0	0.0	3	6.5
40,001-45,000	5	21.7	0	0.0	0	0.0	0	0.0	5	10.9
45,001-50,000	2	8.7	0	0.0	0	0.0	0	0.0	2	4.3
50,001-55,000	2	8.7	0	0.0	0	0.0	0	0.0	2	4.3
55,001-60,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60,001-65,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
65,001-70,000	0	0.0	0	0.0	0	0.0	1	100.0	1	2.2
70,001-75,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
75,001-80,000	1	4.3	0	0.0	0	0.0	0	0.0	1	2.2
80,001-85,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
85,001-90,000	0	0.0	1	25.0	0	0.0	0	0.0	1	2.2
90,001-95,000	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
95,001-100,000	0	0.0	0	0.0	4	22.2	0	0.0	4	8.7
100,001-110,000	0	0.0	1	25.0	7	38.9	0	0.0	8	17.4
110,001-120,000	0	0.0	1	25.0	1	5.6	0	0.0	2	4.3
120,001-130,000	0	0.0	0	0.0	2	11.1	0	0.0	2	4.3
130,001-140,000	0	0.0	1	25.0	2	11.1	0	0.0	3	6.5
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	1	5.6	0	0.0	1	2.2
160,001 and over	0	0.0	0	0.0	1	5.6	0	0.0	1	2.2
Unknown	7	30.4	0	0.0	0	0.0	0	0.0	7	15.2
Total	23	100.0	4	100.0	18	100.0	1	100.0	46	100.0

Table 7-7
Fatal Truck Involvements by Cargo Body Style and LCV Type
TIFA 1998

Cargo Body Style	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Van	6	26.1	1	25.0	0	0.0	1	100.0	8	17.4
Open top van	1	4.3	0	0.0	0	0.0	0	0.0	1	2.2
Refrigerated van	0	0.0	0	0.0	1	5.6	0	0.0	1	2.2
Flatbed	2	8.7	1	25.0	4	22.2	0	0.0	7	15.2
Flatbed with sides	1	4.3	1	25.0	2	11.1	0	0.0	4	8.7
Pole/logging	0	0.0	1	25.0	1	5.6	0	0.0	2	4.3
Tank:liquid/gas	2	8.7	0	0.0	3	16.7	0	0.0	5	10.9
Tank:dry bulk	2	8.7	0	0.0	2	11.1	0	0.0	4	8.7
Dump	1	4.3	0	0.0	0	0.0	0	0.0	1	2.2
Hopper bottom	7	30.4	0	0.0	5	27.8	0	0.0	12	26.1
Other	1	4.3	0	0.0	0	0.0	0	0.0	1	2.2
Total	23	100.0	4	100.0	18	100.0	1	100.0	46	100.0

Table 7-8
Fatal Truck Involvements by Type of Cargo and LCV Type
TIFA 1998

Cargo Type	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Empty	12	52.2	0	0.0	0	0.0	0	0.0	12	26.1
General freight	1	4.3	1	25.0	0	0.0	1	100.0	3	6.5
Building materials	0	0.0	0	0.0	1	5.6	0	0.0	1	2.2
Metal (coils, sheets)	0	0.0	1	25.0	2	11.1	0	0.0	3	6.5
Heavy machinery	1	4.3	0	0.0	0	0.0	0	0.0	1	2.2
Gases in bulk	0	0.0	0	0.0	1	5.6	0	0.0	1	2.2
Solids in bulk	4	17.4	0	0.0	6	33.3	0	0.0	10	21.7
Liquids in bulk	1	4.3	0	0.0	2	11.1	0	0.0	3	6.5
Logs/poles/lumber	0	0.0	2	50.0	3	16.7	0	0.0	5	10.9
Refrigerated foods	0	0.0	0	0.0	1	5.6	0	0.0	1	2.2
Farm products	0	0.0	0	0.0	2	11.1	0	0.0	2	4.3
Other	3	13.0	0	0.0	0	0.0	0	0.0	3	6.5
Unknown	1	4.3	0	0.0	0	0.0	0	0.0	1	2.2
Total	23	100.0	4	100.0	18	100.0	1	100.0	46	100.0

Table 7-9
Fatal Truck Involvements by Road Class and LCV Type
TIFA 1998

Road Class	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Interstate/urban	4	17.4	0	0.0	1	5.6	1	100.0	6	13.0
Interstate/rural	3	13.0	1	25.0	5	27.8	0	0.0	9	19.6
Major arterial/urban	0	0.0	2	50.0	1	5.6	0	0.0	3	6.5
Major arterial/rural	10	43.5	1	25.0	10	55.6	0	0.0	21	45.7
Other/urban	5	21.7	0	0.0	0	0.0	0	0.0	5	10.9
Other/rural	1	4.3	0	0.0	1	5.6	0	0.0	2	4.3
Total	23	100.0	4	100.0	18	100.0	1	100.0	46	100.0

Table 7-10
Fatal Truck Involvements by Carrier Type and LCV Type
TIFA 1998

Carrier Type	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Interstate Private	6	26.1	0	0.0	2	11.1	0	0.0	8	17.4
Interstate For-hire	10	43.5	4	100.0	13	72.2	1	100.0	28	60.9
Intrastate Private	3	13.0	0	0.0	2	11.1	0	0.0	5	10.9
Intrastate For-hire	1	4.3	0	0.0	0	0.0	0	0.0	1	2.2
Unknown	3	13.0	0	0.0	1	5.6	0	0.0	4	8.7
Total	23	100.0	4	100.0	18	100.0	1	100.0	46	100.0

Table 7- 11
Fatal Truck Involvements by First Harmful Event and LCV Type
TIFA 1998

First Harmful Event	Overlength		Overweight		Both		Triple		Total	
	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
<i>Collision</i>										
Motor vehicle	17	73.9	4	100	15	83.3	0	0	36	78.3
Pedestrian/bicyclist	2	8.7	0	0.0	0	0.0	1	100.0	3	6.5
Non-fixed object	0	0.0	0	0.0	1	5.6	0	0.0	1	2.2
Fixed object	3	13.0	0	0.0	1	5.6	0	0.0	4	8.7
<i>Noncollision</i>										
Rollover	1	4.3	0	0.0	0	0.0	0	0.0	1	2.2
Other noncollision	0	0.0	0	0.0	1	5.6	0	0.0	1	2.2
Total	23	100.0	4	100.0	18	100.0	1	100.0	46	100.0

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