



Oklahoma Department of Public Safety – Highway Safety Office  
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*In 2008, there were 102 fatal crashes involving large trucks, and 117 people were killed in these crashes. In crashes involving a large truck and another vehicle, six times as many fatalities occurred in the other vehicle.*

Large Truck Fatal Crashes and Fatalities Five-Year Trend					
	2004	2005	2006	2007	2008
Large Truck Fatal Crashes	93	106	119	85	102
Total Fatal Crashes	667	708	668	653	673
Large Truck as Percentage of Total Fatal Crashes	14.8%	15.6%	18.6%	13.0%	15.2%
Fatalities Occurring in Large Truck Crashes	115	125	142	109	117
Total Fatalities	777	800	765	770	751
Percentage of Fatalities Occurring in Large Truck Crashes	14.8%	15.6%	18.6%	14.2%	15.6%

The table above illustrates that both the number of fatal crashes and the number of fatalities involving large trucks increased in both 2005 and 2006, but decreased in 2007. Fatal crashes and fatalities involving large trucks increased once again in 2008. The number of fatalities in crashes involving large trucks was highest in 2006 with 142 and lowest in 2007 with 109.

### Involvement

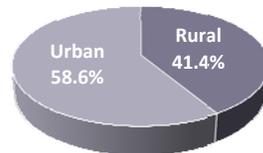
In 2008, there were 5,098 reported crashes involving large trucks. This resulted in 102 fatal crashes with 117 fatalities and 1,438 injury crashes with 2,064 persons injured. Some 15.6% of the 751 fatalities in 2008 occurred in crashes involving a large truck.

Persons Killed or Injured in 2008 Crashes Involving Large Trucks by Injury Severity and Person Type			
Fatalities	Count	% of Total	
Occupant of Large Truck	27	23.1%	
Occupant of Other Vehicle	84	71.8%	
Non-motorist	6	5.1%	
Total	117		
Incapacitating Injuries	Count	% of Total	
Occupant of Large Truck	81	30.1%	
Occupant of Other Vehicle	183	68.0%	
Non-motorist	5	1.9%	
Total	269		
Non-incapacitating Injuries	Count	% of Total	
Occupant of Large Truck	276	36.9%	
Occupant of Other Vehicle	462	61.8%	
Non-motorist	9	1.2%	
Total	747		
Possible Injuries	Count	% of Total	
Occupant of Large Truck	277	26.4%	
Occupant of Other Vehicle	767	73.2%	
Non-motorist	4	.4%	
Total	1,048		

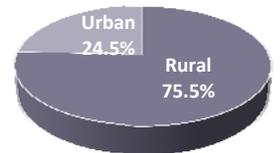
### Location Type

Oklahoma's 2008 crash data show that more than half of the crashes involving large trucks occurred in urban areas. However, large truck crashes involving a fatality occurred three times more often in rural areas.

Large Truck Crashes (2008)  
Rural vs. Urban



Fatal Large Truck Crashes (2008)  
Rural vs. Urban



### Crashes by Number of Vehicles Involved

Approximately 70.0% of all large truck crashes, whether fatal or non-fatal, involved one other vehicle.

Large Truck Crashes In 2008 By Number of Vehicles Involved				
Number of Vehicles	Non-Fatal Crashes	% of Non-Fatal Crashes	Fatal Crashes	% of Fatal Crashes
One	1,108	22.2%	17	16.7%
Two	3,551	71.1%	71	69.6%
Three	276	5.5%	10	9.8%
Four or More	60	1.2%	4	3.9%
Not Stated	1	0.0%		
Totals	4,996		102	

### Fatalities by Number of Vehicles Involved

In large truck crashes that involved multiple vehicles, 85.7% of the fatalities occurred in vehicles other than the large truck.

Persons Killed in 2008 Crashes Involving Large Trucks By Vehicle Type and Person Type				
One Vehicle	Fatalities			
	Driver	Passenger	Non-motorist	Total
Occupant of Large Truck	11	2		13
Non-motorist			6	6
<b>Totals</b>	<b>11</b>	<b>2</b>	<b>6</b>	<b>19</b>
Two or More Vehicles	Fatalities			
	Driver	Passenger	Non-motorist	Total
Occupant of Large Truck	13	1		14
Occupant of Other Vehicle	66	18		84
Total	79	19		98
<b>Totals</b>	<b>90</b>	<b>21</b>	<b>6</b>	<b>117</b>

### Fatalities by Restraint Use

Of the 24 drivers killed in large trucks, 29.2% were unrestrained and restraint use for another 41.7% was unknown. Some 39.7% of the 63 driver fatalities in other vehicles were unrestrained and restraint use was unknown for another 11.1%.

None of the passenger fatalities in large trucks were restrained; 66.7% of the passenger fatalities in other vehicles were unrestrained.

Persons Killed in 2008 Crashes Involving Large Trucks By Vehicle Type and Restraint Use				
Driver Fatalities	Restraint Use			Total
	Unknown	Not In Use	In Use	
Occupant of Large Truck	10	7	7	24
Occupant of Other Vehicle	7	25	31	63
Motorcycle Operator	1	1	1	3
<b>Totals</b>	<b>18</b>	<b>33</b>	<b>39</b>	<b>90</b>
Passenger Fatalities	Restraint Use			Total
	Unknown	Not In Use	In Use	
Occupant of Large Truck		3		3
Occupant of Other Vehicle	2	12	4	18
Motorcycle Passenger				
Total	2	15	4	21
<b>Totals</b>	<b>20</b>	<b>48</b>	<b>43</b>	<b>111</b>

### Driver Age

Drivers in large trucks accounted for 4.1% of the total 129,472 drivers involved in 2008 crashes. Of the 5,268 drivers in large trucks, 25.7% were age 45-54, 25.5% were age 35-44 and 20.1% were age 25-34.

Drivers in large trucks accounted for 10.7% of the total 1,014 drivers involved in 2008 fatal crashes. Of the 109 drivers in large trucks, 24.8% were age 55-64, 22.0% were age 45-54 and 21.1% were age 25-34.

### Drivers of Large Trucks In 2008 Crashes

Driver Age	All Crashes		Fatal Crashes	
	Number of Drivers	% of Total Drivers	Number of Drivers	% of Total Drivers
Unknown	115	2.2%		
Under 15	1	.0%		
16 - 24	367	7.0%	1	.9%
25 - 34	1,057	20.1%	23	21.1%
35 - 44	1,343	25.5%	22	20.2%
45 - 54	1,356	25.7%	24	22.0%
55 - 64	795	15.1%	27	24.8%
65 - 74	205	3.9%	11	10.1%
75+	29	.6%	1	.9%
<b>Totals</b>	<b>5,268</b>		<b>109</b>	

### Driver Contributing Factors

The five primary contributing factors by drivers in large trucks were: (1) Other Improper Act/Movement with 14.2%, (2) Unsafe Speed with 8.8%, (3) Improper Turn with 7.4%, (4) Inattention with 7.0% and (5) Changed Lanes Unsafely with 5.9%.

The five primary contributing factors by drivers in the other vehicles were: (1) Other Improper Act/Movement with 8.6%, (2) Failed To Yield with 7.8%, (3) Unsafe Speed with 6.1%, (4) Inattention with 5.8% and (5) Changed Lanes Unsafely with 5.6%.

### Drivers in Large Truck 2008 Crashes Driver Contributing Factor

Driver Contributing Factors	Large Trucks		Other Vehicles	
	Number of Drivers	% of Total Drivers	Number of Drivers	% of Total Drivers
Changed Lanes Unsafely	312	5.9%	222	5.6%
Failed To Stop	92	1.7%	71	1.8%
Failed To Yield	246	4.7%	309	7.8%
Followed Too Closely	231	4.4%	145	3.6%
Improper Overtaking	36	.7%	86	2.2%
Improper Parking	6	.1%	6	.2%
Improper Start	18	.3%	6	.2%
Improper Turn	391	7.4%	100	2.5%
Inattention	371	7.0%	230	5.8%
Left of Center	76	1.4%	93	2.3%
No Improper Action by Driver	2,061	39.1%	1,975	49.7%
Other Improper Act/Movement	747	14.2%	342	8.6%
Stopped in Traffic Lane	13	.2%	12	.3%
Unsafe Speed	461	8.8%	241	6.1%
Unsafe Vehicle	161	3.1%	49	1.2%
Wrong Way	3	.1%	10	.3%
DUI-Alcohol	16	.3%	57	1.4%
DUI-Drugs	7	.1%	16	.4%
Not Stated	20	.4%	3	.1%
<b>Totals</b>	<b>5,268</b>		<b>3,970</b>	

Drivers of other vehicles were more likely to consume alcohol while driving than drivers of large trucks. In 2008, 15.4% of the total 117 fatalities in large truck crashes were alcohol-related.

**Alcohol-Related Driver Condition**

In 2008, 2.5% of the drivers in large trucks involved in traffic crashes were reported as drinking while driving. However, 7.3% of the drivers in large trucks involved in fatal crashes were reported as drinking while driving.

The statistics suggest that drivers in the other vehicles were more likely to consume alcohol while driving than drivers in large trucks. Approximately 3.4% of drivers in other vehicles in crashes involving large trucks were drinking while driving. In fatal crashes, however, 12.0% of the drivers in other vehicles were drinking while driving.

Drivers of Large Trucks in 2008 Crashes Alcohol-Related Driver Condition by Crash Injury Severity			
	Drinking Drivers	Total Drivers	Drinking Drivers as % of Total
<b>Fatal Crashes</b>			
Drivers of Large Trucks	8	109	7.3%
Drivers of Other Vehicles	11	92	12.0%
<b>Injury Crashes</b>			
Drivers of Large Trucks	61	1,481	4.1%
Drivers of Other Vehicles	66	1,294	5.1%
<b>All Crashes</b>			
Drivers of Large Trucks	133	5,268	2.5%
Drivers of Other Vehicles	135	3,973	3.4%

**Alcohol-Related Fatalities and Injuries**

In 2008, there were 155 alcohol-related crashes involving large trucks. Of these 155 crashes, 14 were fatal and 70 were injury crashes. There were 18 persons killed and 113 persons injured in these crashes.

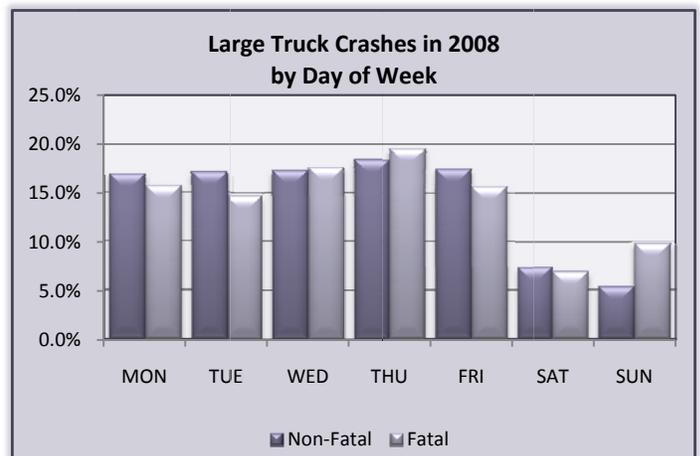
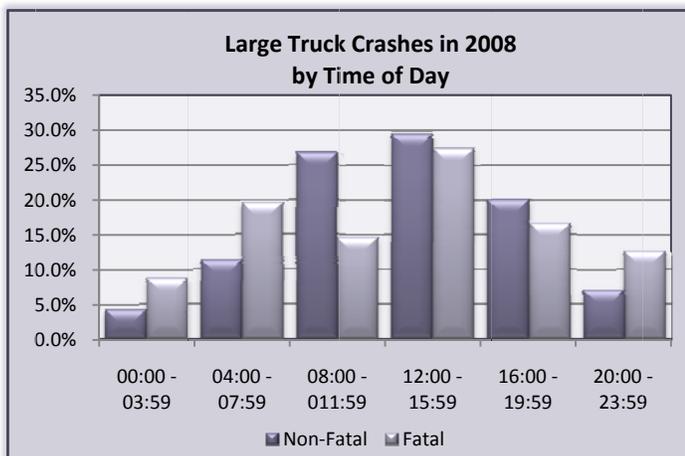
The 18 alcohol-related fatalities accounted for 15.4% of the total 117 fatalities in large truck crashes and 88.9% of these 18 fatalities were occupants in the other vehicles.

Persons Killed/Injured in 2008 Alcohol-Related Large Trucks Crashes by Injury Severity and Person Type		
Fatalities	Count	% of Total
Occupant of Large Truck	2	11.1%
Occupant of Other Vehicle	16	88.9%
<b>Total</b>	<b>18</b>	
Incapacitating Injuries	Count	% of Total
Occupant of Large Truck	3	10.3%
Occupant of Other Vehicle	26	89.7%
<b>Total</b>	<b>29</b>	
Non-incapacitating Injuries	Count	% of Total
Occupant of Large Truck	13	31.7%
Occupant of Other Vehicle	28	68.3%
<b>Total</b>	<b>41</b>	
Possible Injuries	Count	% of Total
Occupant of Large Truck	16	37.2%
Occupant of Other Vehicle	27	62.8%
<b>Total</b>	<b>43</b>	

**Time of Day & Day of Week**

In 2008, non-fatal large truck crashes occurred more often between 8:00 a.m. (08:00) and 7:59 p.m. (19:59). Fatal large truck crashes occurred more often between 12:00 Noon (12:00) and 7:59 p.m. (19:59), and also between 4:00 a.m. (04:00) and 7:59 a.m. (07:59).

Both fatal and non-fatal crashes occurred more often on weekdays than on weekends, with the highest number of crashes occurring on Thursday.

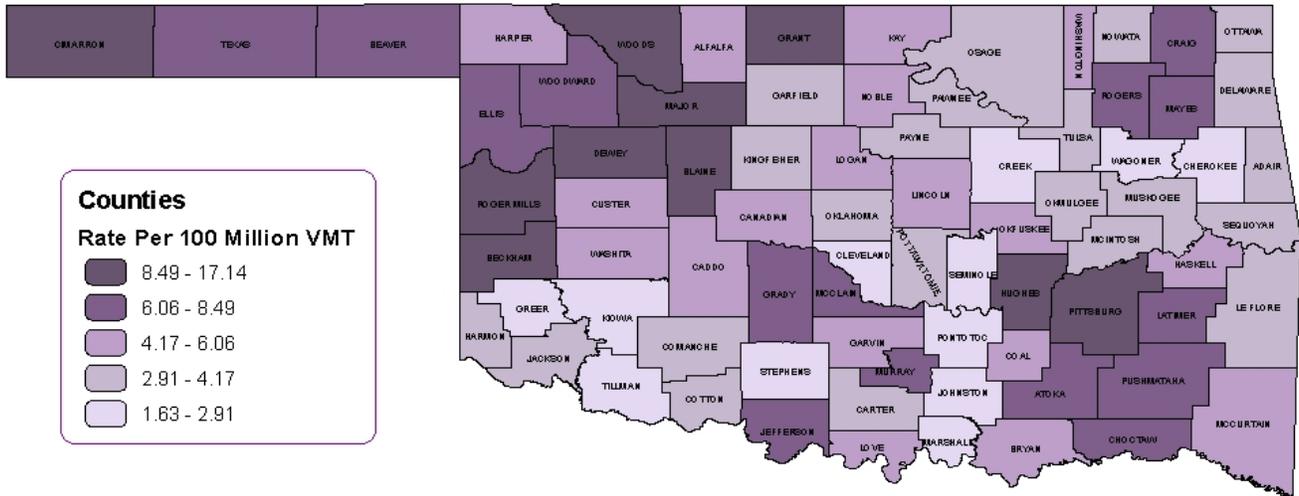


Fatality/Injury Rates in Large Truck Crashes (2008)

County	Population	Vehicle Miles Traveled	Fatalities & Injuries	Rate per 10,000 Population	Rate Per 100 Million VMT	County	Population	Vehicle Miles Traveled	Fatalities & Injuries	Rate per 10,000 Population	Rate Per 100 Million VMT
Adair	21,811	152,803,600	6	2.75	3.93	Logan	38,102	423,732,150	20	5.25	4.72
Alfalfa	5,637	65,765,700	3	5.32	4.56	Love	9,155	305,388,200	14	15.29	4.58
Atoka	14,655	365,339,450	31	21.15	8.49	McClain	32,365	721,389,650	51	15.76	7.07
Beaver	5,248	158,260,350	13	24.77	8.21	McCurain	33,532	432,477,550	26	7.75	6.01
Beckham	21,136	408,854,750	41	19.40	10.03	McIntosh	19,698	446,610,350	14	7.11	3.13
Blaine	12,659	122,497,650	21	16.59	17.14	Major	7,112	157,829,650	15	21.09	9.50
Bryan	40,109	544,696,800	33	8.23	6.06	Marshall	14,919	147,587,750	4	2.68	2.71
Caddo	29,024	419,224,400	19	6.55	4.53	Mayes	39,912	649,535,750	49	12.28	7.54
Canadian	106,079	1,470,402,500	69	6.50	4.69	Murray	12,784	222,701,100	15	11.73	6.74
Carter	47,979	679,929,300	28	5.84	4.12	Muskogee	71,278	898,666,500	28	3.93	3.12
Cherokee	45,733	396,729,450	9	1.97	2.27	Noble	11,169	357,061,250	21	18.80	5.88
Choctaw	14,890	205,582,600	14	9.40	6.81	Nowata	10,729	115,223,200	4	3.73	3.47
Cimarron	2,556	78,332,650	10	39.12	12.77	Okfuskee	11,172	202,567,700	12	10.74	5.92
Cleveland	239,760	2,347,972,000	65	2.71	2.77	Oklahoma	706,617	9,630,703,850	388	5.49	4.03
Coal	5,721	90,155,000	5	8.74	5.55	Okmulgee	39,219	478,372,650	18	4.59	3.76
Comanche	111,772	1,071,260,400	33	2.95	3.08	Osage	45,489	371,011,550	12	2.64	3.23
Cotton	6,191	131,199,250	5	8.08	3.81	Ottawa	31,849	566,173,400	23	7.22	4.06
Craig	15,132	323,612,650	21	13.88	6.49	Pawnee	16,307	229,953,650	9	5.52	3.91
Creek	69,822	963,738,700	25	3.58	2.59	Payne	78,280	695,350,550	23	2.94	3.31
Custer	26,412	423,031,350	20	7.57	4.73	Pittsburg	45,115	713,764,800	86	19.06	12.05
Delaware	40,425	379,636,500	15	3.71	3.95	Pontotoc	36,999	419,209,800	12	3.24	2.86
Dewey	4,389	109,255,450	11	25.06	10.07	Pottawatomie	69,616	797,265,850	30	4.31	3.76
Ellis	3,971	86,380,900	6	15.11	6.95	Pushmataha	11,710	163,030,900	11	9.39	6.75
Garfield	58,167	561,968,600	22	3.78	3.91	Roger Mills	3,404	71,383,050	8	23.50	11.21
Garvin	27,247	535,973,300	32	11.74	5.97	Rogers	84,300	1,037,096,400	74	8.78	7.14
Grady	51,066	627,489,750	49	9.60	7.81	Seminole	24,200	372,592,000	9	3.72	2.42
Grant	4,450	77,777,850	10	22.47	12.86	Sequoyah	41,034	582,711,550	23	5.61	3.95
Greer	5,713	59,151,900	1	1.75	1.69	Stephens	43,498	403,208,200	10	2.30	2.48
Harmon	2,843	30,273,100	1	3.52	3.30	Texas	20,283	290,448,750	19	9.37	6.54
Harper	3,290	77,558,850	4	12.16	5.16	Tillman	7,899	92,702,700	2	2.53	2.16
Haskell	12,152	132,721,300	6	4.94	4.52	Tulsa	591,982	7,297,715,100	304	5.14	4.17
Hughes	13,625	164,290,150	17	12.48	10.35	Wagoner	68,960	721,645,150	21	3.05	2.91
Jackson	25,236	257,200,900	8	3.17	3.11	Washington	50,452	434,693,100	24	4.76	5.52
Jefferson	6,219	77,139,100	5	8.04	6.48	Washita	11,709	238,060,300	14	11.96	5.88
Johnston	10,286	122,424,650	2	1.94	1.63	Woods	8,422	93,385,250	10	11.87	10.71
Kay	45,632	571,911,200	29	6.36	5.07	Woodward	19,838	266,450,000	19	9.58	7.13
Kingfisher	14,300	180,733,400	7	4.90	3.87	<b>Statewide</b>	<b>3,642,361</b>	<b>46,900,098,300</b>	<b>2181</b>	<b>5.99</b>	<b>4.65</b>
Kiowa	9,399	132,761,450	3	3.19	2.26						
Latimer	10,561	128,297,500	9	8.52	7.01						
LeFlore	49,802	580,627,400	21	4.22	3.62						
Lincoln	32,153	539,437,150	30	9.33	5.56						

Shaded counties are rural counties.  
 Population Source: Oklahoma Department of Commerce.  
 Vehicle Miles Traveled Source: Oklahoma Department of Transportation.

## Injury/Fatality Rates per 100 Million VMT in Crashes Involving Large Trucks (2008)



The above map illustrates the large truck fatality/injury\* rates by county in Oklahoma. In 2008, the average number of fatalities/injuries per 100 Million VMT was 4.58. Thirty-nine counties had a traffic fatality/injury rate greater than the mean.

\*Fatality/injuries includes: fatalities, incapacitating injuries, non-incapacitating injuries and possible injuries.  
VMT – Vehicle Miles Traveled.

Large trucks include the following vehicle configurations as defined on the *Official Oklahoma Traffic Collision Report*: (05) Single Unit Truck, 2 axles, (06) Single Unit Truck, 3+ axles, (08) Truck/Trailer, (09) Truck-tractor (Bobtail), (10) Truck-Tractor/Semi-Trailer, (11) Truck-Tractor/Double, (12) Truck-Tractor/Triple and (22) Truck more than 10,000 lbs, cannot classify.