

INDIANA 2009 TRAFFIC SAFETY FACTS

May 2009



A collision produces three levels of data: collision, unit (vehicles), and individual. For this reason, readers should pay particular attention to the wording of statements about the data to avoid misinterpretations.

Designing and implementing effective traffic safety policies requires data-driven analysis of traffic accidents. To help in the policy-making process, the Indiana University Center for Criminal Justice Research is collaborating with the Indiana Criminal Justice Institute to analyze 2008 vehicle crash data from the Automated Reporting Information Exchange System (ARIES), maintained by the Indiana State Police. This marks the third year of this partnership. Research findings will be summarized in a series of Fact Sheets on various aspects of traffic collisions, including alcohol-related crashes, light and large trucks, dangerous driving, children, motorcycles, occupant protection, and drivers. An additional publication will provide information on county and municipality data and the final publication will be the annual Indiana Crash Fact Book. These publications serve as the analytical foundation of traffic safety program planning and design in Indiana.

Indiana collision data are obtained from Indiana Crash Reports, as completed by law enforcement officers. As of December 31, 2008, approximately 98 percent of all collisions are entered electronically through the ARIES. Trends in collisions incidence as reported in these publications could incorporate the effects of changes to data elements on the Crash Report, agency-specific enforcement policy changes, re-engineered roadways, driver safety education programs and other unspecified effects. If you have questions regarding trends or unexpected results, please contact the Indiana Criminal Justice Institute, Traffic Safety Division for more information.



LARGE TRUCKS₂₀₀₈

In 2008, a total of 205,281 Indiana total traffic collisions were reported by law enforcement. Of those, 13,264 (6.5 percent) involved a large truck (Table 1).¹ One of every six fatal traffic collisions in 2008 involved a large truck (117/721). This fact sheet summarizes data trends on traffic collisions involving large trucks between 2004 and 2008, including alcohol use, injuries, speeding, and other factors contributing to large truck collisions. Indiana data are taken from the Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 1, 2009.

COLLISIONS

Indiana traffic collisions declined on average 0.3 percent each year from 2004 to 2008, while collisions involving large trucks declined on average 4.3 percent (Table 1). The proportion of collisions involving large trucks stayed the same from 2007 to 2008 at 6.5 percent of all collisions. Table 1 shows an overall average proportional decline in fatal collisions involving large trucks from 2004 to 2008 (1.6 percent). The largest average decline (18.7 percent) in collisions involving large trucks occurred in non-incapacitating injury collisions.

Table 1: Large truck collisions as a proportion of all collisions, by collision severity, 2004-2008

	2004	2005	2006	2007	2008	Average Annual Change
All collisions	208,682	208,359	192,721	204,999	205,281	-0.3%
With large trucks involved	16,056	15,557	12,849	13,398	13,264	-4.3%
% all collisions	7.7%	7.5%	6.7%	6.5%	6.5%	-4.2%
Fatal collisions	857	855	817	804	721	-4.1%
With large trucks involved	150	132	123	133	117	-5.7%
% all fatal collisions	17.5%	15.4%	15.1%	16.5%	16.2%	-1.6%
Incapacitating injury collisions	3,295	3,141	3,190	3,075	2,896	-3.1%
With large trucks involved	276	243	189	184	178	-10.0%
% all incapacitating collisions	8.4%	7.7%	5.9%	6.0%	6.1%	-6.8%
Non-incapacitating injury collisions	40,008	38,620	35,659	34,341	32,431	-5.1%
With large trucks involved	2,474	2,380	1,482	897	951	-18.7%
% all non-incapacitating collisions	6.2%	6.2%	4.2%	2.6%	2.9%	-14.4%
Property damage only collisions	164,522	165,743	153,055	166,779	169,233	0.9%
With large trucks involved	13,156	12,802	11,055	12,184	12,018	-1.9%
% all property damage collisions	8.0%	7.7%	7.2%	7.3%	7.1%	-2.9%

Source: Indiana State Police Automated Reporting Information Exchange System, as of March 1, 2009.

Note:

Non-incapacitating collisions include collisions with non-incapacitating and possible injuries.

Table 2: Collisions involving large trucks by location, type of collision, and collision severity, 2004-2008

Collisions involving large trucks in:	2004	2005	2006	2007	2008	Average Annual Change
All collisions	16,056	15,557	12,849	13,398	13,264	-4.3%
Fatal	150	132	123	133	117	-5.7%
Incapacitating	276	243	189	184	178	-10.0%
Non-incapacitating	2,474	2,380	1,482	897	951	-18.7%
Property damage only	13,156	12,802	11,055	12,184	12,018	-1.9%
Rural collisions	6,943	7,120	5,993	5,656	5,725	-4.4%
Fatal	124	101	92	103	84	-8.5%
Incapacitating	158	163	127	113	104	-9.5%
Non-incapacitating	1,266	1,250	791	436	464	-19.1%
Property damage only	5,395	5,606	4,983	5,004	5,073	-1.4%
Urban collisions	9,086	8,406	6,846	7,724	7,530	-3.9%
Fatal	26	31	31	30	33	6.5%
Incapacitating	118	80	62	71	74	-9.0%
Non-incapacitating	1,205	1,128	691	460	486	-18.2%
Property damage only	7,737	7,167	6,062	7,163	6,937	-1.9%
Single-vehicle collisions	3,238	3,369	3,007	2,894	3,143	-0.5%
Fatal	19	23	17	17	11	-10.1%
Incapacitating	40	37	37	29	33	-3.8%
Non-incapacitating	380	422	327	151	167	-13.7%
Property damage only	2,799	2,887	2,626	2,697	2,932	1.4%
Multiple-vehicle collisions	12,818	12,188	9,842	10,504	10,121	-5.3%
Fatal	131	109	106	116	106	-4.7%
Incapacitating	236	206	152	155	145	-10.9%
Non-incapacitating	2,094	1,958	1,155	746	784	-19.5%
Property damage only	10,357	9,915	8,429	9,487	9,086	-2.7%
Probability of a fatal collision in:						
All collisions	0.9%	0.8%	1.0%	1.0%	0.9%	
Rural collisions	1.8%	1.4%	1.5%	1.8%	1.5%	
Urban collisions	0.3%	0.4%	0.5%	0.4%	0.4%	
Single-vehicle collisions	0.6%	0.7%	0.6%	0.6%	0.3%	
Multiple-vehicle collisions	1.0%	0.9%	1.1%	1.1%	1.0%	

Source: Indiana State Police Automated Reporting Information Exchange System, as of March 1, 2009.

Notes:

Non-incapacitating collisions include collisions with non-incapacitating and possible injuries. Urban collisions are those that occurred within the incorporated limits of the city identified on the collision report. Rural collisions are those that occurred outside incorporated limits. Rural/urban collisions include only collisions where data were known.

More collisions involving large trucks occurred in urban than in rural areas (Table 2). Fatal collisions involving large trucks in urban areas increased on average 6.5 percent from 2004 to 2008, while all other injury and non-injury collisions in urban areas involving large trucks decreased on average over the same

time frame. Rural collisions involving large trucks also declined on average from 2004 to 2008.

There were more than three times as many multiple-vehicle collisions involving large trucks in 2008 than single-vehicle collisions. Multiple-vehicle collisions involving large trucks continue to decrease, with an average decline from 2004 to 2008 of 5.3 percent. Single-vehicle collisions involving large trucks also declined on average.

The highest probability of a fatal collision involving a large truck for all years was in rural collisions (Table 2). In 2008, the probability of a collision involving large trucks resulting in one or more fatalities was 1.5 percent in a rural locale. The lowest probability of collisions involving large trucks resulting in a fatality was for urban and single-vehicle collisions.

Time and Location

Collisions involving large trucks tended to occur during the weekdays (Monday through Friday) and during daytime hours (7am to 5pm) (not shown). In 2008, December had the highest number of total large truck collisions, while July had the highest number of fatal collisions involving large trucks.

Table 3 shows that 54.5 percent of the collisions involving large trucks occurred on interstates (27.4 percent) and local/city roads (27.1 percent). Large truck collisions were least likely to occur on county roads (5.7 percent). Thirty-two percent of fatal collisions involving large trucks occurred on state roads and 30 percent on interstates.

As shown on Map 1, Interstate 465 (around Indianapolis) had many large truck injury collisions, but few large truck fatal collisions.

Table 3: Collisions involving large trucks, by roadway class and collision severity, 2008

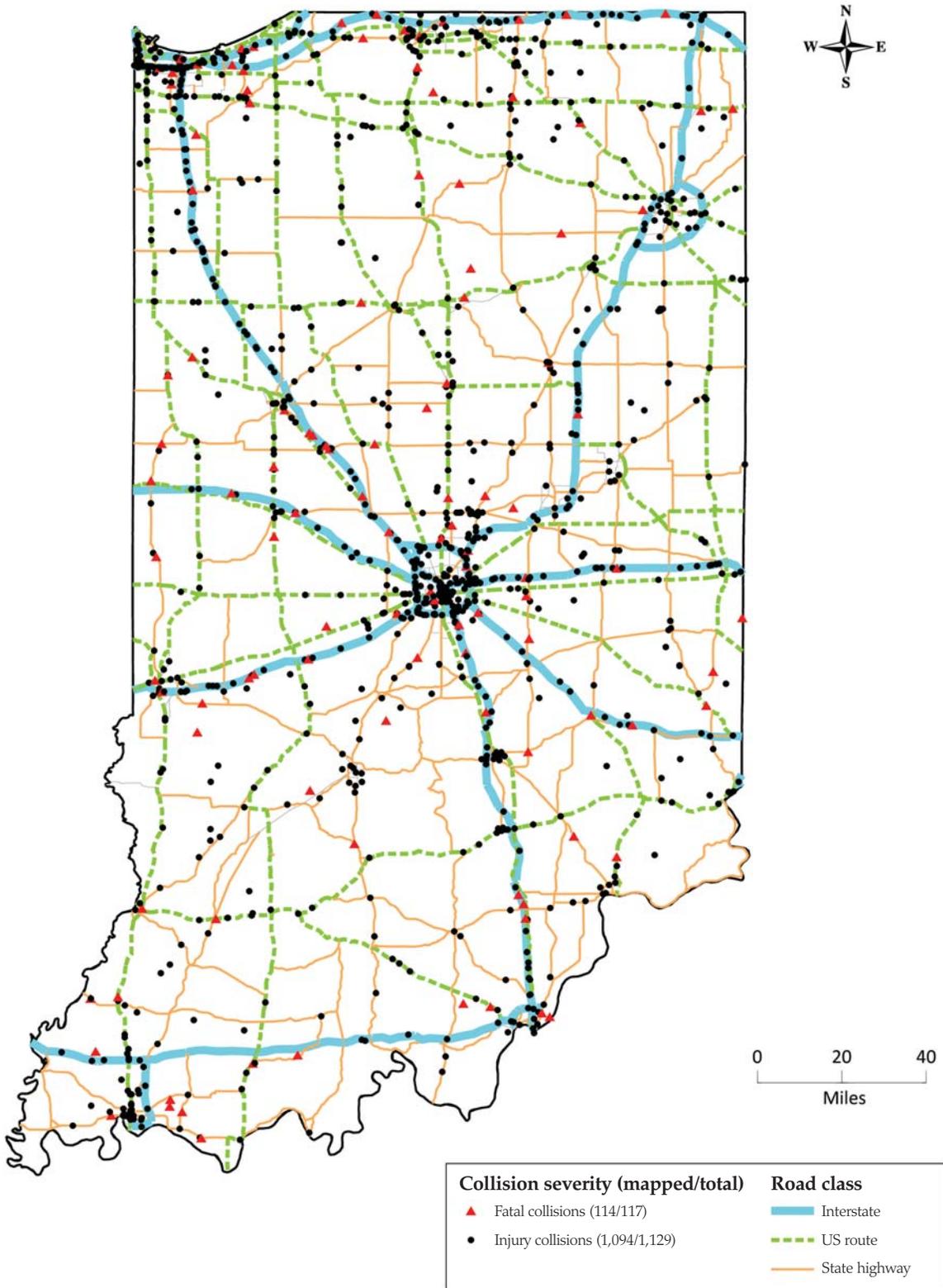
Roadway classification	Severity of collision								Total	
	Fatal		Incapacitating		Non-incapacitating		Property damage only		Count	%
	Count	%	Count	%	Count	%	Count	%	Count	%
Interstate	35	29.9%	45	25.3%	283	29.8%	3,275	27.3%	3,638	27.4%
Local/city road	13	11.1%	34	19.1%	205	21.6%	3,345	27.8%	3,597	27.1%
State road	37	31.6%	38	21.3%	193	20.3%	1,654	13.8%	1,922	14.5%
US Route	27	23.1%	45	25.3%	193	20.3%	1,564	13.0%	1,829	13.8%
Unknown	1	0.9%	4	2.2%	25	2.6%	1,487	12.4%	1,517	11.4%
County road	4	3.4%	12	6.7%	52	5.5%	693	5.8%	761	5.7%
Total	117	100.0%	178	100.0%	951	100.0%	12,018	100.0%	13,264	100.0%

Source: Indiana State Police Automated Reporting Information Exchange System, as of March 1, 2009.

Notes:

Non-incapacitating collisions include collisions with non-incapacitating and possible injuries. Due to rounding, totals may not equal 100 percent.

Map 1: Indiana collisions involving large trucks by injury severity, 2008



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 1, 2009.

Notes:

Includes collisions with valid latitude and longitude values.

Injury collisions defined as collisions with no fatalities and at least one *incapacitating, non-incapacitating or possible injury*.

Table 4: Vehicles involved in large truck collisions, 2004-2008

Vehicle types	2004	2005	2006	2007	2008	Average Annual Change
Large trucks	17,795	17,262	14,374	15,033	14,794	-4.2%
Other vehicles	12,373	11,647	9,288	9,929	9,521	-5.8%
Buses	93	94	60	69	86	1.1%
Light trucks	4,607	4,367	3,377	3,507	3,246	-7.9%
Motorcycles	60	46	35	50	44	-4.1%
Passenger cars	7,403	6,904	5,572	5,992	5,903	-5.0%
Other vehicle types	70	75	66	77	62	-1.9%
Unknown vehicle types	140	161	178	234	180	8.5%
TOTAL	30,168	28,909	23,662	24,962	24,315	-4.9%

Source: Indiana State Police Automated Reporting Information Exchange System, as of March 1, 2009.

Notes:

Motorcycles include mopeds.
 Light trucks include pickup trucks under 10,001 pounds, SUVs, and vans.
 Other vehicle type includes motor homes, farm vehicles, and combination vehicles.
 Unknown vehicle type includes those reported as unknown or invalid vehicle types.
 Excludes pedestrians and bicycles as units.

Indiana traffic collisions declined on average 0.3 percent each year from 2004 to 2008, while collisions involving large trucks declined on average 4.3 percent.

Table 5: Large trucks involved in collisions by type of truck and collision severity, 2008

Large trucks involved in:	Large trucks	
	Count	%
Fatal collisions	133	100.0%
Pickup truck	4	3.0%
Tractor/Double trailer	6	4.5%
Tractor/One semi trailer	94	70.7%
Truck (Single 2 axle, 6 tires)	13	9.8%
Truck (Single 3 or more axles)	16	12.0%
Injury collisions	1,236	100.0%
Tractor (cab only, no trailer)	48	3.9%
Tractor/Double trailer	24	1.9%
Tractor/One semi trailer	745	60.3%
Truck (Single 2 axle, 6 tires)	262	21.2%
Truck (Single 3 or more axles)	135	10.9%
Truck/Trailer (not semi)	22	1.8%
Property damage only collisions	13,425	100.0%
Pickup truck	5	0.0%
Tractor (cab only, no trailer)	474	3.5%
Tractor/Double trailer	215	1.6%
Tractor/One semi trailer	8,223	61.3%
Tractor/Triple trailer	10	0.1%
Truck (Single 2 axle, 6 tires)	2,964	22.1%
Truck (Single 3 or more axles)	1,250	9.3%
Truck/Trailer (not semi)	284	2.1%
All collisions	14,794	100.0%
Pickup truck	9	0.1%
Tractor (cab only, no trailer)	522	3.5%
Tractor/Double trailer	245	1.7%
Tractor/One semi trailer	9,062	61.3%
Tractor/Triple trailer	10	0.1%
Truck (Single 2 axle, 6 tires)	3,239	21.9%
Truck (Single 3 or more axles)	1,401	9.5%
Truck/Trailer (not semi)	306	2.1%

Source: Indiana State Police Automated Reporting Information Exchange System, as of March 1, 2009.

Notes:

Injury collisions include collisions with incapacitating, non-incapacitating, and possible injuries.
 Due to rounding, totals may not equal 100 percent.

sions. Interstate 65 from the southern Indiana border to the north intersection with the Indiana toll road shows many injury collisions, including several fatal large truck collisions. The majority of large truck injury collisions occurred in the northern half of the state (Indianapolis and north).

VEHICLES

In 2008, there were 24,315 motor vehicles, including large trucks, involved in large truck collisions (Table 4). On average from 2004 to 2008, the number of large trucks involved in collisions decreased 4.2 percent each year, while the number of other vehicles involved in large truck collisions decreased 5.8 percent. Buses involved in large truck collisions increased from 2007 to 2008 (69 to 86, 24.6 percent), while light truck involvement decreased from 3,507 in 2007 to 3,246 in 2008 (8 percent).

Large truck tractors pulling one semi trailer accounted for 61 percent of the large trucks involved in collisions in 2008 (Table 5) and 71 percent of the large trucks involved in fatal collisions. Single large trucks with two axles and six tires had the second highest proportion of involvement in collisions involving large trucks (22 percent), while single trucks with three or more axles had the second highest proportion in fatal collisions (12 percent).

Primary factors

The *Indiana Officers Standard Crash Report* requires investigating officers to indicate the *primary factor* of a collision, which includes 54 possible factors classified as contributing circumstances associated with the driver, the vehicle, or the environment. As shown in Table 6, in fatal collisions involving large trucks where driver actions were listed as the primary factor, the actions of 27 percent of large truck drivers were attributable to the occurrence of the collision (i.e., contributing circumstances associated with the large truck matched the primary factor of the collision), compared to 64 percent for other vehicle types. Large trucks were 2.5 times (relative risk) more likely than drivers of other vehicles to be attributable to the occurrence of the collision in instances where distracted driving was listed as the primary factor. In non-fatal collisions, vehicle circumstances

Table 6: Vehicles involved in multiple vehicle collisions involving a large truck, by primary factor, vehicle type, and collision severity, 2008

Collision severity	Primary factor	Vehicles involved		Vehicles whose factors were attributable to crash outcome		% attributable		
		Large trucks	Other vehicles	Large trucks	Other vehicles	Large trucks	Other vehicles	Relative risk
Fatal	Driver actions	114	112	31	72	27.2%	64.3%	0.4
	Distracted driving	4	5	2	1	50.0%	20.0%	2.5
	Errant/Risky driving	92	90	21	60	22.8%	66.7%	0.3
	Impaired driving	3	3	0	3	0.0%	100.0%	--
	Other	15	14	8	8	53.3%	57.1%	0.9
	Vehicle circumstances	3	4	1	1	33.3%	25.0%	1.3
	Environment	5	6	1	5	20.0%	83.3%	0.2
	TOTAL	122	122	33	78	27.0%	63.9%	0.4
Non-fatal	Driver actions	10,212	8,322	5,291	3,969	51.8%	47.7%	1.1
	Distracted driving	359	295	177	136	49.3%	46.1%	1.1
	Errant/Risky driving	8,282	6,777	4,174	3,158	50.4%	46.6%	1.1
	Impaired driving	183	186	24	147	13.1%	79.0%	0.2
	Other	1,388	1,064	916	528	66.0%	49.6%	1.3
	Vehicle circumstances	554	425	358	119	64.6%	28.0%	2.3
	Environment	731	625	474	471	64.8%	75.4%	0.9
	TOTAL	11,497	9,372	6,123	4,559	53.3%	48.6%	1.1

Source: Indiana State Police Automated Reporting Information Exchange System, as of March 1, 2009.

Notes:

Non-fatal includes incapacitating, non-incapacitating, possible, and property damage only collisions.

Data exclude driver not a factor and collisions where primary factor was not reported.

Multiple circumstances can be attached to each vehicle, thus percentages will not total 100%.

Relative risk is the ratio of % large trucks attributable to % other vehicles attributable. Values greater than 1 indicate large trucks are more likely to be attributable.

Errant/risky driving includes but not limited to: disregard signal/reg sign, failure to yield right of way, following too closely, improper passing, left of center, unsafe speed.

Impaired driving includes alcoholic beverages, driver asleep or fatigued.

Vehicle circumstances include tire failure or defective.

Environment includes glare, roadway surface condition.

Table 7: Vehicles speeding in large truck collisions, by collision severity, 2004-2008

Vehicles that were speeding in:	2004	2005	2006	2007	2008
Fatal collisions	26	28	21	26	25
# Lg trucks speeding	13	9	8	12	8
Lg truck speeding as % of total vehicles	50.0%	32.1%	38.1%	46.2%	32.0%
Incapacitating collisions	63	45	41	38	39
# Lg trucks speeding	26	23	20	13	13
Lg truck speeding as % of total vehicles	41.3%	51.1%	48.8%	34.2%	33.3%
Non-incapacitating collisions	403	446	253	148	196
# Lg trucks speeding	219	243	154	78	94
Lg truck speeding as % of total vehicles	54.3%	54.5%	60.9%	52.7%	48.0%
Property damage collisions	891	1,037	678	1,099	1,359
# Lg trucks speeding	447	533	359	528	682
Lg truck speeding as % of total vehicles	50.2%	51.4%	52.9%	48.0%	50.2%
All collisions	1,383	1,556	993	1,311	1,619
# Lg trucks speeding	705	808	541	631	797
Lg truck speeding as % of total vehicles	51.0%	51.9%	54.5%	48.1%	49.2%

Source: Indiana State Police Automated Reporting Information Exchange System, as of March 1, 2009.

Notes:

Excludes pedestrians and pedalcyclists as units.

Speed-related collision defined as if the driver was charged with a speeding-related offense or if an officer indicated that the driver was driving at an unsafe speed or at a speed too fast for the weather conditions.

associated with large trucks were 2.3 times (relative risk) more likely to be attributable as the primary factor.

In total collisions from 2004 to 2008 involving large trucks where speeding was a factor, the large truck involved was

reportedly speeding about half the time (Table 7). In fatal collisions involving large trucks in 2008, only 32 percent of the speeding vehicles were large trucks, a decrease of 14 percentage points from 2007 (46.2 to 32 percent).

Table 8: Known injuries as a result of collisions involving large trucks, 2004-2008

Injuries	2004	2005	2006	2007	2008	Average Annual Change
Fatalities	169	147	145	155	144	-3.6%
Single-vehicle collisions						
Driver - large truck	12	13	11	14	4	-12.8%
Occupant - large truck	0	1	0	0	1	—
Nonmotorist	8	9	6	3	6	7.3%
Multiple-vehicle collisions						
Driver - large truck	14	16	14	10	6	-16.7%
Driver - other vehicle	94	82	74	94	84	-1.5%
Occupant - large truck	3	0	2	0	0	—
Occupant - other vehicle	31	22	31	31	39	9.4%
Nonmotorist	7	4	7	3	4	2.1%
Non-fatal known injuries	3,942	3,582	2,344	1,530	1,573	-18.9%
Single-vehicle collisions						
Driver - large truck	365	408	325	150	166	-12.9%
Occupant - large truck	55	52	50	24	21	-18.5%
Nonmotorist	35	34	25	22	32	1.0%
Multiple-vehicle collisions						
Driver - large truck	513	484	308	165	165	-22.1%
Driver - other vehicle	2,039	1,842	1,147	805	806	-19.3%
Occupant - large truck	146	85	49	23	19	-38.6%
Occupant - other vehicle	774	663	435	336	352	-16.7%
Nonmotorist	15	14	5	5	12	17.3%
Total injuries	4,111	3,729	2,489	1,685	1,717	-18.2%
Single-vehicle collisions						
Driver - large truck	377	421	336	164	170	-14.0%
Occupant - large truck	55	53	50	24	22	-17.4%
Nonmotorist	43	43	31	25	38	1.2%
Multiple-vehicle collisions						
Driver - large truck	527	500	322	175	171	-22.2%
Driver - other vehicle	2,133	1,924	1,221	899	890	-18.4%
Occupant - large truck	149	85	51	23	19	-38.8%
Occupant - other vehicle	805	685	466	367	391	-15.4%
Nonmotorist	22	18	12	8	16	3.8%
Probability of fatality						
Single-vehicle collisions						
Driver - large truck	3.2%	3.1%	3.3%	8.5%	2.4%	
Occupant - large truck	0.0%	1.9%	0.0%	0.0%	4.5%	
Nonmotorist	18.6%	20.9%	19.4%	12.0%	15.8%	
Multiple-vehicle collisions						
Driver - large truck	2.7%	3.2%	4.3%	5.7%	3.5%	
Driver - other vehicle	4.4%	4.3%	6.1%	10.5%	9.4%	
Occupant - large truck	2.0%	0.0%	3.9%	0.0%	0.0%	
Occupant - other vehicle	3.9%	3.2%	6.7%	8.4%	10.0%	
Nonmotorist	31.8%	22.2%	58.3%	37.5%	25.0%	

Source: Indiana State Police Automated Reporting Information Exchange System, as of March 1, 2009.

Notes:

Non-fatal known injuries includes incapacitating, non-incapacitating, and possible injuries.

Nonmotorist includes pedestrians and pedalcyclists.

Excludes unknown injuries.

INJURIES, LICENSING, AND RESTRAINTS

Most deaths in multiple vehicle large truck collisions were drivers and occupants of other vehicles rather than drivers or occupants of large trucks (Table 8). Trucks weigh 20 to 30 times

more than passenger cars, making the passenger car occupants more vulnerable. Loaded tractor-trailers require 20 to 40 percent more roadway than cars to stop, and the discrepancy is greater on wet and slippery roads, or with poorly maintained brakes.²

In 2008, there were 1,717 people killed or injured in collisions involving large trucks, less than half of those killed or injured in 2004 (4,111) – an 18.2 percent average annual decrease from 2004 to 2008. Fatalities decreased annually on average 3.6 percent. In 2008, the driver of the other vehicle involved in a large truck collision was likely to be killed 9.4 percent of the time, while the occupant of the other vehicle was likely to be killed 10 percent of the time. The driver of the large truck is likely to be killed 3.5 percent of the time in multiple-vehicle collisions.

Drivers of large trucks tend generally to exhibit proper commercial driver licensing (not shown). There were a total of 13,143 drivers of large trucks involved in collisions in 2008. Of those, 10,583 (80.5 percent) had a proper commercial driver's license, and an additional 2,448 (18.6 percent) had an operator or chauffeur's license. There were ten drivers with no license. Of the 13,143 drivers of large trucks involved in collisions, 89.6 percent were known to be properly restrained.

Driver Impairment

Alcohol appeared to be a minor contributor to the collisions involving large trucks. Only two of the 341 large truck drivers (0.6 percent) involved in known injury collisions (fatal, incapacitating, non-incapacitating) were reported as having a blood alcohol concentration (BAC) greater than 0.00 grams per deciliter (g/dL) (Table 9). This compared to 22 drivers (2.5 percent) of other vehicles involved in large truck injury collisions. Eighteen of the 22 drivers of the other vehicles involved in injury collisions had a BAC of greater than 0.08, the legal limit. Drivers of other vehicles (38 percent) were more likely to be legally intoxicated than drivers of large trucks (3.8 percent).

Table 9: Drivers involved in large truck collisions, by vehicle type, blood alcohol concentration (BAC), and injury severity, 2008

BAC results for drivers of:	Individual injury status					Total
	Fatal	Incapacitating	Non-incapacitating	Other	Not injured	
Large truck	10	38	293	237	12,565	13,143
BAC not reported	0	36	262	220	12,334	12,852
g/dL = 0.00	10	2	29	17	217	275
g/dL 0.01 - 0.07	0	0	0	0	5	5
g/dL 0.08 - 0.14	0	0	0	0	7	7
g/dL 0.15+	0	0	2	0	2	4
g/dL >0, as % reported	0.0%	0.0%	6.5%	0.0%	6.1%	5.5%
g/dL =0.08+, as % reported	0.0%	0.0%	6.5%	0.0%	3.9%	3.8%
Other vehicle	84	117	689	104	7,336	8,330
BAC not reported	36	114	662	99	7,227	8,138
g/dL = 0.00	42	2	12	2	32	90
g/dL 0.01 - 0.07	0	1	3	1	24	29
g/dL 0.08 - 0.14	3	0	6	1	27	37
g/dL 0.15+	3	0	6	1	26	36
g/dL >0, as % reported	12.5%	33.3%	55.6%	60.0%	70.6%	53.1%
g/dL =0.08+, as % reported	12.5%	0.0%	44.4%	40.0%	48.6%	38.0%
All drivers	94	155	982	341	19,901	21,473
BAC not reported	36	150	924	319	19,561	20,990
g/dL = 0.00	52	4	41	19	249	365
g/dL 0.01 - 0.07	0	1	3	1	29	34
g/dL 0.08 - 0.14	3	0	6	1	34	44
g/dL 0.15+	3	0	8	1	28	40
g/dL >0, as % reported	10.3%	20.0%	29.3%	13.6%	26.8%	24.4%
g/dL =0.08+, as % reported	10.3%	0.0%	24.1%	9.1%	18.2%	17.4%

Source: Indiana State Police Automated Reporting Information Exchange System, as of March 1, 2009.

Notes:

Non-incapacitating includes non-incapacitating and possible injuries.

BAC not reported includes drivers where no test was given and drivers where it was unknown if a test was given, however no results were listed.

Other injury status includes Not Reported, Unknown, Refused (treatment), and invalid entries.

SUMMARY

Collisions involving large trucks declined on average 4.3 percent from 2004 to 2008. Fatal collisions involving large trucks in urban areas increased on average 6.5 percent in the same time frame. Fifty-four percent of the collisions involving large trucks occurred on interstates and local/city roads. Large truck tractors pulling one semi trailer accounted for 61 percent of the large trucks involved in collisions in 2008. Most deaths in multiple-vehicle large truck collisions are drivers and occupants of other vehicles rather than drivers or occupants of large trucks.

The U. S. Department of Transportation is working to ensure interstate truck companies are safe and safely operated. Some of their safety reforms for this past year included: 1) increased the number of roadside safety inspections and onsite compliance reviews to yearly record levels; and 2) strengthened trucker hours-of-service rules, tightened medical requirements, and improved commercial driver licensing.³

Endnotes:

¹A large truck is defined as one of the following types, as defined on the *Indiana Crash Report*: (1) truck (single 2 axle, 6 tires), (2) truck (single 3 or more axles), (3) truck/trailer (not semi), (4) tractor/one semi-trailer, (5) tractor/double trailer; (6) tractor/triple trailer, (7) tractor (cab only, no trailer), (8) pickup truck with gross vehicle weight rating greater than 10,000 pounds.

²National Highway Traffic Safety Administration. (1987). *Heavy truck safety study*. DOT HS 807 109. Washington, DC: U.S. Department of Transportation.

³*Administration's Focus on Safety—on Highways, Railways, Seaways and Airways—Has Led to One of the Safest Periods in the Nation's Transportation History*. U.S. Department of Transportation. Accessed February 17, 2009 at <http://www.dot.gov/affairs/SafetyFactSheet.htm>.

This publication was prepared on behalf of the Indiana Criminal Justice Institute by the Indiana University Center for Criminal Justice Research (CCJR). Please direct any questions concerning data in this document to ICJI at 317-232-1233.

This publication is one of a series of Fact Sheets that, along with the annual Indiana Crash Fact Book, form the analytical foundation of traffic safety program planning and design in the state of Indiana. Funding for these publications is provided by the Indiana Criminal Justice Institute and the National Highway Traffic Safety Administration.

An electronic copy of this document can be accessed via the CCJR website (www.criminaljustice.iupui.edu), the ICJI website (www.in.gov/cji/), or you may contact the Center for Criminal Justice Research at 317-261-3000.

The Indiana Criminal Justice Institute (ICJI)

Guided by a Board of Trustees representing all components of Indiana's criminal and juvenile justice systems, the Indiana Criminal Justice Institute serves as the state's planning agency for criminal justice, juvenile justice, traffic safety, and victim services. ICJI develops long-range strategies for the effective administration of Indiana's criminal and juvenile justice systems and administers federal and state funds to carry out these strategies.

The Governor's Council on Impaired & Dangerous Driving

The Governor's Council on Impaired & Dangerous Driving, a division of the Indiana Criminal Justice Institute, serves as the public opinion catalyst and the implementing body for statewide action to reduce death and injury on Indiana roadways. The Council provides grant funding, training, coordination and ongoing support to state and local traffic safety advocates.

Indiana University Public Policy Institute

The Indiana University (IU) Public Policy Institute is a collaborative, multidisciplinary research institute within the Indiana University School of Public and Environmental Affairs (SPEA), Indianapolis. The Institute serves as an umbrella organization for research centers affiliated with SPEA, including the Center for Urban Policy and the Environment, the Center for Health Policy, and the Center for Criminal Justice Research. The Institute also supports the Office of International Community Development and the Indiana Advisory Commission on Intergovernmental Relations (IACIR).

The Center for Criminal Justice Research (CCJR)

The Center for Criminal Justice Research, one of three applied research centers currently affiliated with the Indiana University Public Policy Institute, works with public safety agencies and social services organizations to provide impartial applied research on criminal justice and public safety issues. CCJR provides analysis, evaluation, and assistance to criminal justice agencies; and community information and education on public safety questions. CCJR research topics include traffic safety, crime prevention, criminal justice systems, drugs and alcohol, policing, violence and victimization, and youth.

The National Highway Traffic Safety Administration (NHTSA)

NHTSA provides leadership to the motor vehicle and highway safety community through the development of innovative approaches to reducing motor vehicle crashes and injuries. The mission of NHTSA is to save lives, prevent injuries and reduce economic costs due to road traffic crashes, through education, research, safety standards and enforcement activity.

Author: Kathy Lisby **Map:** Bill Newby



**CENTER FOR
CRIMINAL JUSTICE RESEARCH**

ADDRESS SERVICE REQUESTED

334 North Senate Avenue, Suite 300
Indianapolis, IN 46204-1708
www.criminaljustice.iupui.edu



**SCHOOL OF PUBLIC AND
ENVIRONMENTAL AFFAIRS**

INDIANA UNIVERSITY
IUPUI