

Alcohol-Related Crashes (2010)

Oklahoma
Department of Public
Safety
Highway Safety Office

3223 N. Lincoln Blvd.
Oklahoma City, OK 73105

Phone: 405.523.1570
Fax: 405.523.1586

www.ohso.ok.gov



*Alcohol-Related Fatal Crashes & Fatalities
Five Year Trend*

	2006	2007	2008	2009	2010
Alcohol-Related Fatal Crashes	148	198	232	190	227
Total Fatal Crashes	668	653	673	646	616
Alcohol-Related Fatal Crashes as Percentage of Total Fatal Crashes	22.2%	30.3%	34.5%	29.4%	36.9%
Fatalities in Alcohol-Related Crashes	157	229	266	209	245
Total Fatalities	765	770	751	737	668
Alcohol-Related Fatalities as Percentage of Total Fatalities	20.5%	29.7%	35.4%	28.4%	36.7%

Involvement

- In 2010, there were 4,614 alcohol-related crashes in Oklahoma. This represents 6.6% of the total 69,807 total reported crashes.
- Alcohol-related crashes in 2010 resulted in 227 fatalities—an increase of 19.5% from the 190 fatalities in 2009.
- There were 3,248 persons injured in 2010 alcohol-related crashes—a decrease of 5.9% from the 3,452 persons injured in 2009.
- In 2010, the statewide alcohol-related fatality rate was .51 per 100 million vehicle miles traveled.

Fatalities

Of the 245 alcohol-related fatalities in 2010, 173 were drivers, 44 were passengers, 27 were pedestrians and one was a bicyclist. Of the 217 vehicle occupants killed in an alcohol-related crash, 52.1% were occupants of *passenger vehicles, 31.3% were occupants of pickup trucks and 11.1% were occupants of a motorcycle.

**Fatalities in Alcohol-Related Crashes
Five-Year Trend**



**Vehicle Occupant Fatalities (2010)
In Alcohol-Related Crashes**

Vehicle Type	Driver	Passenger	Total
Passenger Vehicle-2 Door	12	7	19
Passenger Vehicle-4 Door	40	14	54
Passenger Vehicle-Convertible	1	1	2
Pickup Truck	53	15	68
Truck-Tractor/Semi-Trailer	2		2
Motorcycle	21	3	24
Farm Machinery	1		1
ATV	6		6
Sport Utility Vehicle (SUV)	30	3	33
Passenger Van	2	1	3
Van-10,000 lbs. or less	2		2
Other	2		2
Unknown	1		1
Total	173	44	217

*Passenger vehicles include passenger vehicle-2 door, passenger vehicle-4 door, passenger vehicle-convertible, sport utility vehicle (SUV) and passenger van.

Fatalities by Age, Sex and Person Type

The table below shows fatalities in alcohol-related crashes in 2010 by age, sex and person type. Some 70.6% of the fatalities in alcohol-related crashes were drivers, 18.0% were passengers and 11.4% were non-motorists. Some 25.7% of the fatalities in alcohol-related crashes were age 46-55, 22.0% were age 26-35 and 19.6% were age 16-25. Some 71.4% of the total fatalities were male.

**Fatalities in Alcohol-Related Crashes (2010)
Person Age, Person Sex and Person Type**

Age	Bicyclist			Driver			Pedestrian			Passenger			Total		
	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total
Under 16										1	1	2	1	1	2
16 - 25				6	22	28	3	4	7	6	7	13	15	33	48
26 - 35				8	35	43		2	2	4	5	9	12	42	54
36 - 45				12	24	36	1	3	4	4	2	6	17	29	46
46 - 55		1	1	12	35	47	3	5	8	4	3	7	19	44	63
56 - 65					11	11		5	5	1	4	5	1	20	21
66 - 75				2	4	6		1	1	1		1	3	5	8
76+				1	1	2				1		1	2	1	3
Total		1	1	41	132	173	7	20	27	22	22	44	70	175	245

Fatalities & Restraint Use

Restraint use was known for 171 of the occupants killed in passenger vehicles/pickup trucks in alcohol-related crashes in 2010. Of the 171 fatalities with known restraint use, 75.4% were unrestrained. Comparison of occupant fatalities in passenger vehicles and pickup trucks shows that 82.4% of the pickup truck occupants were unrestrained while 70.9% of the passenger vehicle occupants were unrestrained.

**Fatalities in Alcohol-Related Crashes (2010)
Passenger Vehicle/Pickup Truck Occupants
Person Type, Vehicle Type and Known Restraint Use**

Person Type	Vehicle Type	Restraint Use			Total
		Not In Use	In Use	Child Restraint	
Driver	Passenger Vehicle	54	25		79
	Pickup Truck	43	10		53
	Total	97	35		132
Passenger	Passenger Vehicle	19	4	1	24
	Pickup Truck	13	2		15
	Total	32	6	1	39
Total	Passenger Vehicle	73	29	1	103
	Pickup Truck	56	12		68
	Total	129	41	1	171

Excludes eight fatalities with unknown restraint use.

Motorcyclist Fatalities & Helmet Use

Helmet use was known for 23 of the 24 motorcyclists killed in alcohol-related crashes in 2010. Of these 23 motorcyclists, 91.3% were not wearing a helmet.

**Motorcyclist Fatalities (2010)
In Alcohol-Related Crashes**

Person Type	Restraint Use		
	Not In Use	Helmet	Total
Operator	18	2	20
Passenger	3		3
Total	21	2	23

Excludes one fatality with unknown helmet use.

Drivers

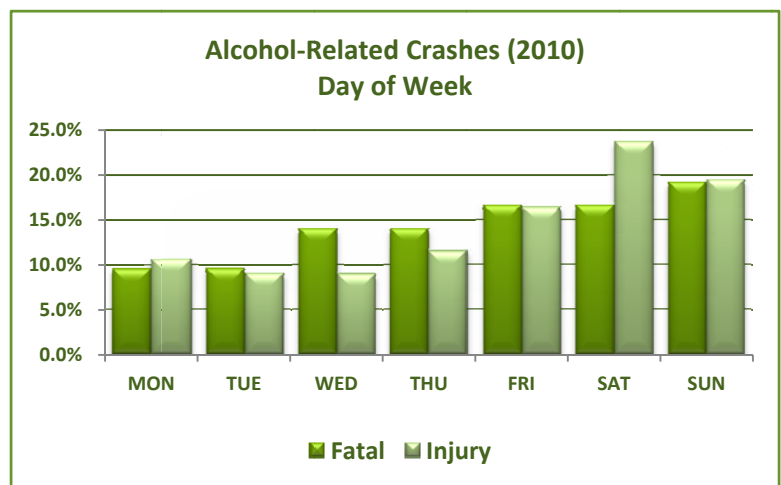
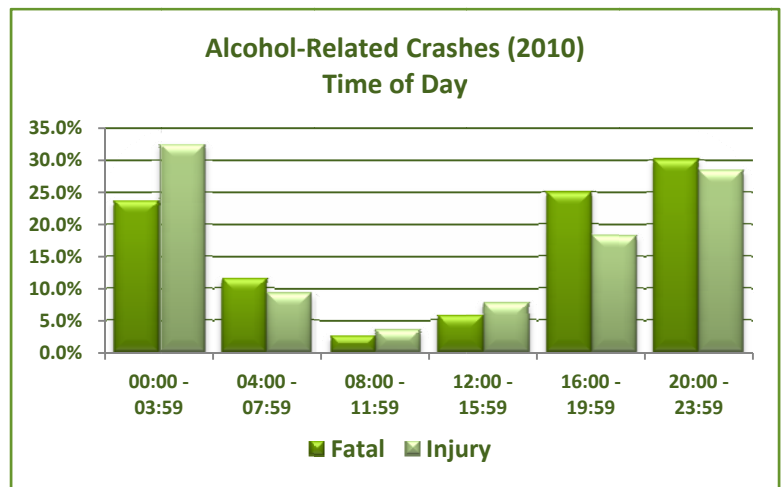
There were 4,558 drivers involved in crashes who had been drinking in 2010. This represents 3.6% of the 126,662 drivers involved in crashes. In 2010, 74.5% of the drivers who had been drinking and involved in crashes were male. Although there were fewer female drinking drivers involved in crashes, when sorted by age groups, the percentage of male and female drinking drivers was similar. Drivers age 16-25 had the highest incidence of drinking while driving, followed by drivers age 26-35 and age 36-45.

Drinking Drivers in Crashes Driver Age & Driver Sex								
Driver Age	Unknown		Female		Male		Total	
	Drivers	% of Total	Drivers	% of Total	Drivers	% of Total	Drivers	% of Total
Unknown	29	100.0%	7	0.6%	23	0.7%	59	1.3%
Under 16			4	0.4%	4	0.1%	8	0.2%
16 - 25			354	31.2%	1052	31.0%	1406	30.8%
26 - 35			349	30.8%	921	27.1%	1270	27.9%
36 - 45			224	19.8%	593	17.5%	817	17.9%
46 - 55			152	13.4%	551	16.2%	703	15.4%
56 - 65			31	2.7%	189	5.6%	220	4.8%
66 - 75			10	0.9%	48	1.4%	58	1.3%
76+			3	0.3%	14	0.4%	17	0.4%
Total	29	100.0%	1134	100.0%	3395	100.0%	4558	100.0%

Time & Day of Week

Alcohol-related crashes typically occur during late evening and early morning hours, and the year 2010 was no exception. Some 78.8% of the fatal crashes and 79.2% of the injury crashes occurred between the hours of 4:00 p.m. (16:00) and 3:59 a.m. (3:59).

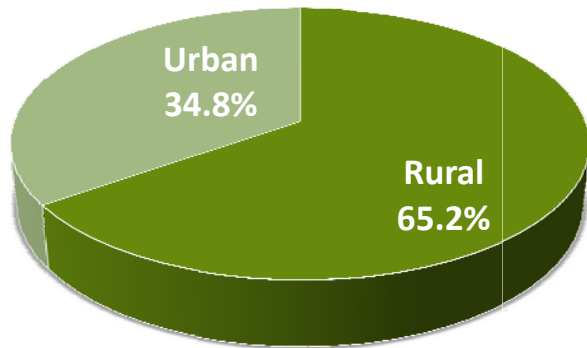
Some 19.2% of the fatal alcohol-related crashes occurred on Sunday and 23.8% of the injury crashes occurred on Saturday.



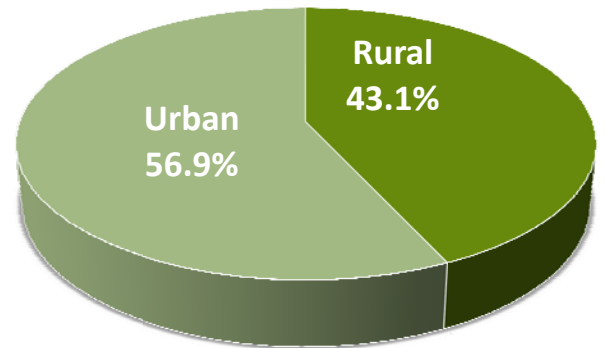
Rural vs. Urban

Some 65.2% of the alcohol-related fatal crashes occurred in rural areas. In comparison, 43.1% of the injury crashes occurred in rural areas.

**Alcohol-Related Fatal Crashes (2010)
Rural vs. Urban**



**Alcohol-Related Injury Crashes (2010)
Rural vs. Urban**



Number of Vehicles Involved in Crashes

In 2010, 71.4% of alcohol-related fatal crashes involved one vehicle, 24.2% involved two vehicles and 4.4% involved three or more vehicles. Some 58.8% of the alcohol-related injury crashes involved one vehicle, 35.2% involved two vehicles and 6.0% involved three or more vehicles.

Alcohol-Related Crashes (2010) Crash Injury Severity & Number of Vehicles Involved					
Crash Injury Severity	Number of Vehicles Involved in Crash				Total
	1 Vehicle	2 Vehicles	3 Vehicles	4+ Vehicles	
Fatal	162	55	8	2	227
Incapacitating	335	127	20	6	488
Non-incapacitating	580	313	37	8	938
Possible	340	312	41	15	708
Total	1417	807	106	31	2361

Driver Fatalities with Alcohol-Related Condition & Restraint Use

Of the 148 drivers killed who had been drinking, 50.0% were drivers of passenger vehicles and 33.8% were drivers of pickup trucks. Some 68.9% of the drivers killed in passenger vehicles and 84.0% of the drivers killed in pickup trucks were unrestrained. Some 92.9% of the motorcycle operators killed were not wearing a helmet.

Driver Fatalities with Alcohol-Related Condition (2010) Vehicle Type & Restraint Use				
Vehicle Type	Restraint Use			Total
	Unknown	Not In Use	In Use	
Passenger Vehicle	4	51	19	74
Pickup Truck		42	8	50
Truck-tractor/Trailer(s)		2		2
Motorcycle	1	13		14
ATV	1	4		5
Other		2		2
Unknown/Not Stated		1		1
Total	6	115	27	148

Alcohol-Related Fatality & Injury Rates by County (2010) Rates by Population and Vehicle Miles Traveled (VMT)								
County	Population	Vehicle Miles Traveled (VMT)	Fatalities	Rate per 5,000 Population	Rate Per 100 Million VMT	Injuries	Rate Per 5,000 Population	Rate per 100 Million VMT
Adair	22,683	150,732,816	1	0.22	0.66	26	5.73	17.25
Alfalfa	5,642	64,312,109			0.00	13	11.52	20.21
Atoka	14,182	368,198,360	1	0.35	0.27	19	6.70	5.16
Beaver	5,636	157,422,770	1	0.89	0.64	3	2.66	1.91
Beckham	22,119	399,763,972	3	0.68	0.75	18	4.07	4.50
Blaine	11,943	142,188,009			0.00	21	8.79	14.77
Bryan	42,416	573,461,187	4	0.47	0.70	39	4.60	6.80
Caddo	29,600	429,447,765	6	1.01	1.40	56	9.46	13.04
Canadian	115,541	1,490,912,368	7	0.30	0.47	59	2.55	3.96
Carter	47,557	685,140,237	4	0.42	0.58	42	4.42	6.13
Cherokee	46,987	392,337,014	1	0.11	0.25	65	6.92	16.57
Choctaw	15,205	215,478,798	1	0.33	0.46	19	6.25	8.82
Cimarron	2,475	77,928,493			0.00	3	6.06	3.85
Cleveland	255,755	2,371,431,984	6	0.12	0.25	151	2.95	6.37
Coal	5,925	95,890,548	1	0.84	1.04		0.00	0.00
Comanche	124,098	1,090,561,527	6	0.24	0.55	128	5.16	11.74
Cotton	6,193	135,800,356	1	0.81	0.74	2	1.61	1.47
Craig	15,029	323,703,265			0.00	7	2.33	2.16
Creek	69,967	970,290,008	1	0.07	0.10	41	2.93	4.23
Custer	27,469	439,079,995	1	0.18	0.23	35	6.37	7.97
Delaware	41,487	400,804,423	7	0.84	1.75	67	8.07	16.72
Dewey	4,810	103,653,627			0.00	4	4.16	3.86
Ellis	4,151	87,911,860	1	1.20	1.14	2	2.41	2.28
Garfield	60,580	571,039,007	2	0.17	0.35	48	3.96	8.41
Garvin	27,576	549,840,924	2	0.36	0.36	28	5.08	5.09
Grady	52,431	642,152,143	8	0.76	1.25	29	2.77	4.52
Grant	4,527	83,645,641	2	2.21	2.39	2	2.21	2.39
Greer	6,239	53,258,077	1	0.80	1.88		0.00	0.00
Harmon	2,922	26,744,671			0.00	2	3.42	7.48
Harper	3,685	80,280,232			0.00	1	1.36	1.25
Haskell	12,769	130,694,046	2	0.78	1.53	17	6.66	13.01
Hughes	14,003	146,161,914	3	1.07	2.05	10	3.57	6.84
Jackson	26,446	252,293,464	1	0.19	0.40	16	3.03	6.34
Jefferson	6,472	74,763,410	1	0.77	1.34	6	4.64	8.03
Johnston	10,957	119,177,424	1	0.46	0.84	16	7.30	13.43
Kay	46,562	582,915,793	6	0.64	1.03	34	3.65	5.83
Kingfisher	15,034	179,071,099	1	0.33	0.56	8	2.66	4.47
Kiowa	9,446	122,849,514	1	0.53	0.81	7	3.71	5.70
Latimer	11,154	133,991,701	1	0.45	0.75	10	4.48	7.46
LeFlore	50,384	576,864,947	3	0.30	0.52	39	3.87	6.76
Lincoln	34,273	542,206,296	6	0.88	1.11	20	2.92	3.69
Logan	41,848	452,272,037	4	0.48	0.88	19	2.27	4.20
Love	9,423	321,763,867			0.00	8	4.24	2.49
McClain	34,506	730,650,945	6	0.87	0.82	31	4.49	4.24
McCurtain	33,151	420,188,679	4	0.60	0.95	53	7.99	12.61

Alcohol-Related Fatality & Injury Rates by County (2010) Rates by Population and Vehicle Miles Traveled (VMT)								
County	Population	Vehicle Miles Traveled (VMT)	Fatalities	Rate per 5,000 Population	Rate Per 100 Million VMT	Injuries	Rate Per 5,000 Population	Rate per 100 Million VMT
McIntosh	20,252	446,865,865	1	0.25	0.22	26	6.42	5.82
Major	7,527	152,633,255	1	0.66	0.66	8	5.31	5.24
Marshall	15,840	155,792,289			0.00	16	5.05	10.27
Mayes	41,259	622,166,575	5	0.61	0.80	48	5.82	7.71
Murray	13,488	242,270,046	1	0.37	0.41	17	6.30	7.02
Muskogee	70,990	898,232,927	1	0.07	0.11	50	3.52	5.57
Noble	11,561	364,915,616	1	0.43	0.27	8	3.46	2.19
Nowata	10,536	118,835,835			0.00	11	5.22	9.26
Okfuskee	12,191	201,450,172			0.00	15	6.15	7.45
Oklahoma	718,633	9,967,207,161	30	0.21	0.30	649	4.52	6.51
Okmulgee	40,069	490,330,645	9	1.12	1.84	28	3.49	5.71
Osage	47,472	362,619,196	9	0.95	2.48	46	4.84	12.69
Ottawa	31,848	566,117,449	3	0.47	0.53	39	6.12	6.89
Pawnee	16,577	238,247,560	1	0.30	0.42	14	4.22	5.88
Payne	77,350	725,126,469	2	0.13	0.28	77	4.98	10.62
Pittsburg	45,837	713,032,136	1	0.11	0.14	42	4.58	5.89
Pontotoc	37,492	413,660,457	6	0.80	1.45	49	6.53	11.85
Pottawatomie	69,442	791,714,160	6	0.43	0.76	50	3.60	6.32
Pushmataha	11,572	163,452,880	4	1.73	2.45	19	8.21	11.62
Roger Mills	3,647	74,003,429	2	2.74	2.70	6	8.23	8.11
Rogers	86,905	1,075,843,592	4	0.23	0.37	44	2.53	4.09
Seminole	25,482	383,618,632	2	0.39	0.52	33	6.48	8.60
Sequoyah	42,391	581,235,497	8	0.94	1.38	38	4.48	6.54
Stephens	45,048	412,347,866	5	0.55	1.21	18	2.00	4.37
Texas	20,640	302,532,002			0.00	5	1.21	1.65
Tillman	7,992	85,698,635	1	0.63	1.17	12	7.51	14.00
Tulsa	603,403	7,463,193,456	25	0.21	0.33	577	4.78	7.73
Wagoner	73,085	727,910,652	5	0.34	0.69	34	2.33	4.67
Washington	50,976	445,191,854	3	0.29	0.67	36	3.53	8.09
Washita	11,629	219,693,920			0.00	15	6.45	6.83
Woods	8,878	105,156,047			0.00	7	3.94	6.66
Woodward	20,081	275,517,242	1	0.25	0.36	9	2.24	3.27
Statewide	3,751,351	47,745,890,839	245	0.33	0.51	3248	4.33	6.80
Injury severity includes incapacitating, non-incapacitating and possible.								

Alcohol-Related Fatality & Injury Rates for Cities 5,000+ Population (2010) Rates by Population & Vehicle Miles Traveled (VMT)								
City	Population	Vehicles Miles Traveled (VMT)	Fatalities	Rate per 5,000 Population	Rate per 100 Million VMT	Injuries	Rate per 5,000 Population	Rate per 100 Million VMT
Ada	16,810	127,493,682				12	3.57	9.41
Altus	19,813	115,293,101				8	2.02	6.94
Anadarko	6,762	35,547,138				2	1.48	5.63
Ardmore	24,283	267,157,699	2	0.41	0.75	21	4.32	7.86
Bartlesville	35,750	208,323,031	1	0.14	0.48	13	1.82	6.24
Bethany	19,051	139,955,115				12	3.15	8.57
Bixby	20,884	115,188,726				7	1.68	6.08
Blackwell	7,092	33,666,596				1	0.71	2.97
Blanchard	7,670	54,057,767				3	1.96	5.55
Broken Arrow	98,850	752,816,632	1	0.05	0.13	45	2.28	5.98
Catoosa	7,151	57,999,449				5	3.50	8.62
Chickasha	16,036	128,074,496	2	0.62	1.56	11	3.43	8.59
Choctaw	11,146	84,772,210				5	2.24	5.90
Claremore	18,581	122,957,597				3	0.81	2.44
Clinton	9,033	71,175,329				12	6.64	16.86
Collinsville	5,606	16,970,003				3	2.68	17.68
Coweta	9,943	63,910,598				1	0.50	1.56
Cushing	7,826	37,299,387				4	2.56	10.72
Del City	21,332	218,992,218	2	0.47	0.91	31	7.27	14.16
Duncan	23,431	170,792,475				6	1.28	3.51
Durant	15,856	158,697,594				13	4.10	8.19
Edmond	81,405	748,900,226	1	0.06	0.13	26	1.60	3.47
El Reno	16,749	237,655,803	1	0.30	0.42	3	0.90	1.26
Elk City	11,693	77,522,500				6	2.57	7.74
Enid	49,379	382,242,385	2	0.20	0.52	40	4.05	10.46
Glenpool	10,808	91,000,015				4	1.85	4.40
Grove	6,623	44,754,866				4	3.02	8.94
Guthrie	10,191	65,853,191	1	0.49	1.52	6	2.94	9.11
Guymon	11,442	47,300,175				3	1.31	6.34
Harrah	5,095	57,461,070				8	7.85	13.92
Henryetta	5,927	34,648,005						
Holdenville	5,771	18,085,827						
Hugo	5,310	26,203,981				2	1.88	7.63
Idabel	7,010	68,482,906				6	4.28	8.76
Jenks	16,924	186,333,121	1	0.30	0.54	3	0.89	1.61
Lawton	96,867	689,798,831	3	0.15	0.43	98	5.06	14.21
Lone Grove	5,054	45,322,050	1	0.99	2.21	4	3.96	8.83
McAlester	18,383	108,166,626				10	2.72	9.24
Miami	13,570	76,771,625				10	3.68	13.03
Midwest City	54,371	405,250,860				25	2.30	6.17
Moore	55,081	451,871,380	1	0.09	0.22	37	3.36	8.19
Muskogee	39,223	379,988,112	1	0.13	0.26	35	4.46	9.21
Mustang	17,395	103,093,038				2	0.57	1.94
Newcastle	7,685	182,055,634						
Noble	6,481	30,758,988				3	2.31	9.75

Alcohol-Related Fatality & Injury Rates for Cities 5,000+ Population (2010) Rates by Population & Vehicle Miles Traveled (VMT)									
City	Population	Vehicles Miles Traveled (VMT)	Fatalities	Rate per 5,000 Population	Rate per 100 Million VMT	Injuries	Rate per 5,000 Population	Rate per 100 Million VMT	
Norman	110,925	1,093,263,538	3	0.14	0.27	74	3.34	6.77	
Oklahoma City	579,999	9,175,394,313	31	0.27	0.34	587	5.06	6.40	
Okmulgee	12,321	75,004,080				11	4.46	14.67	
Owasso	28,915	134,785,525				8	1.38	5.94	
Pauls Valley	6,187	74,581,476	1	0.81	1.34	7	5.66	9.39	
Perry	5,126	29,940,381							
Piedmont	5,720	22,428,140				1	0.87	4.46	
Ponca City	25,387	161,784,567				14	2.76	8.65	
Poteau	8,520	93,590,139	1	0.59	1.07	5	2.93	5.34	
Pryor	9,539	54,978,654				6	3.14	10.91	
Purcell	5,884	127,499,442				5	4.25	3.92	
Sallisaw	8,880	85,495,238				2	1.13	2.34	
Sand Springs	18,906	137,586,243				8	2.12	5.81	
Sapulpa	20,544	219,310,319				8	1.95	3.65	
Seminole	7,488	70,041,963				5	3.34	7.14	
Shawnee	29,857	251,074,280				10	1.67	3.98	
Skiatook	7,397	34,012,667	1	0.68	2.94	2	1.35	5.88	
Stillwater	45,688	274,760,090	2	0.22	0.73	40	4.38	14.56	
Tahlequah	15,753	129,456,576				9	2.86	6.95	
Tecumseh	6,457	53,873,832							
The Village	8,929	60,225,153				2	1.12	3.32	
Tulsa	391,906	5,321,911,320	22	0.28	0.41	470	6.00	8.83	
Tuttle	6,019	50,581,820							
Vinita	5,743	32,766,525				3	2.61	9.16	
Wagoner	8,323	46,887,367				4	2.40	8.53	
Warr Acres	10,043	79,650,964	1	0.50	1.26	2	1.00	2.51	
Watonga	5,111	10,789,630							
Weatherford	10,833	51,284,285				5	2.31	9.75	
Woodward	12,051	88,609,488				3	1.24	3.39	
Yukon	22,709	149,701,144				9	1.98	6.01	
Total	2,402,503	25,731,931,217	82	0.17	0.32	1853	3.86	7.20	

Injury severity includes incapacitating, non-incapacitating and possible.