

Work Zone Crashes (2010)

Highway Safety Fact Sheet

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Work Zone Fatal Crashes & Fatalities Five-Year Trend					
	2006	2007	2008	2009	2010
Work Zone Fatal Crashes	11	19	17	16	19
Total Fatal Crashes	668	653	673	646	616
Work Zone Fatal Crashes as Percentage of Total Fatal Crashes	1.6%	2.9%	2.5%	2.5%	3.1%
Fatalities Occurring in Work Zone Crashes	17	24	17	18	20
Total Fatalities	765	770	751	737	668
Work Zone Fatalities as Percentage of Total Fatalities	2.2%	3.1%	2.3%	2.4%	3.0%



Crashes, Fatalities & Injuries

In 2010 there were 2,166 reported crashes in Work Zones on Oklahoma roads. This represents 3.1% of the total 69,807 crashes reported in 2010. Nineteen crashes involved at least one fatality and 803 involved at least one injured person. These crashes resulted in 20 fatalities and 1,190 persons injured.

Of the 20 fatalities in Work Zone crashes, 12 were drivers, two were bicyclists and six were pedestrians.

Restraint Use Among Fatalities

Seven of the 20 fatalities in Work Zones were drivers of a passenger vehicle or pickup truck. Of these seven driver fatalities, four were unrestrained.

Driver Age & Sex

In 2010, there were 4,198 drivers involved in reported crashes that occurred in Work Zones. Of these 4,198 drivers, 22.8% were age 16-25, 19.7% were age 26-35, 17.4% were age 46-55 and 17.3% were age 36-45. Some 58.6% of the drivers were male.

Drivers in Work Zone Crashes (2010) Driver Age & Driver Sex								
	Person Sex							
	Unknown		Female		Male		Total	
	Number	% of Total	Number	% of Total	Number	% of Total	Number	% of Total
Unknown	138	100.0%	18	1.1%	43	1.7%	199	4.7%
Under 16			3	0.2%	1	0.0%	4	0.1%
16 - 25			447	28.0%	512	20.8%	959	22.8%
26 - 35			307	19.2%	520	21.1%	827	19.7%
36 - 45			266	16.6%	459	18.7%	725	17.3%
46 - 55			278	17.4%	452	18.4%	730	17.4%
56 - 65			177	11.1%	293	11.9%	470	11.2%
66 - 75			73	4.6%	117	4.8%	190	4.5%
76+			30	1.9%	64	2.6%	94	2.2%
Total	138	100.0%	1599	100.0%	2461	100.0%	4198	100.0%

Alcohol-Related Driver Condition

Some 3.0% (126) of the drivers in Work Zone crashes had an alcohol-related driver condition. Of these 126 drivers with an alcohol-related driver condition, 27.0% were age 26-35, 25.4% were age 16-25 and 23.8% were age 36-45. Some 77.8% of the drivers were male.

Drivers in Work Zone Crashes (2010) Alcohol-Related Driver Condition Driver Age & Driver Sex								
	Person Sex							
	Unknown		Female		Male		Total	
	Number	% of Total	Number	% of Total	Number	% of Total	Number	% of Total
Unknown	1	100.0%			1	1.0%	2	1.6%
Under 16			1	3.7%			1	0.8%
16 - 25			8	29.6%	24	24.5%	32	25.4%
26 - 35			9	33.3%	25	25.5%	34	27.0%
36 - 45			5	18.5%	25	25.5%	30	23.8%
46 - 55			4	14.8%	18	18.4%	22	17.5%
56 - 65					3	3.1%	3	2.4%
66 - 75					1	1.0%	1	0.8%
76+					1	1.0%	1	0.8%
Total	1	100.0%	27	100.0%	98	100.0%	126	100.0%

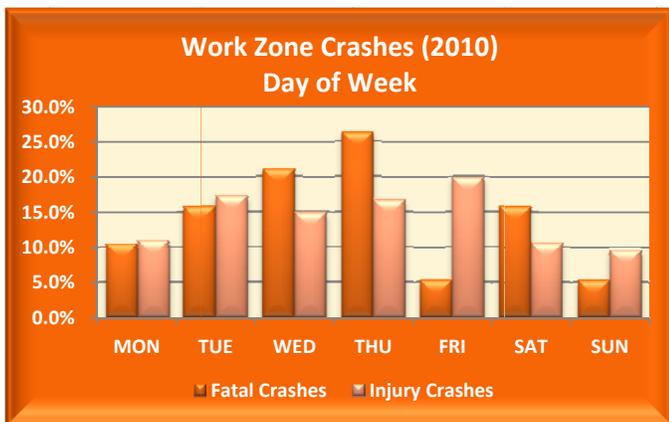
Driver Contributing Factors

Some 9.7% of the drivers in Work Zone crashes were driving at an unsafe speed, 8.2% were following too closely, 7.3% were inattentive, 6.4% made an improper movement, 5.5% failed to yield and 5.1% made an unsafe lane change.

A closer look at the primary contributing factor of unsafe speed shows that 65.0% were driving at an unsafe speed for traffic conditions, 10.3% were driving at an unsafe speed on wet roadways, 4.9% were driving at an unsafe speed on icy or snowy roadways, 3.9% were driving at an unsafe speed for the type of roadway, 3.4% were exceeding the legal speed limit and 3.4% were driving at an unsafe speed on a curve/turn.

Time & Day

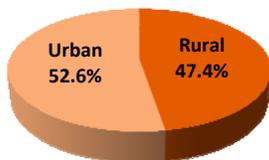
Fatal Work Zone crashes occurred most often between 4:00 p.m. (16:00) and 7:59 p.m. (19:59) and between midnight (00:00) and 3:59 a.m. (03:59). Injury Work Zone crashes occurred most often between 8:00 a.m. (08:00) and 7:59 p.m. (19:59).



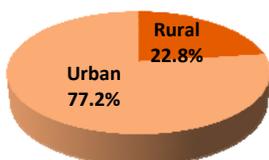
Rural vs. Urban

Statewide in 2010, slightly more fatal crashes occurred in Work Zones located in urban areas than in rural areas. Three times more injury crashes occurred in urban areas than in rural areas.

Work Zone Fatal Crashes (2010)



Work Zone Injury Crashes (2010)



Persons in Work Zone Crashes (2010) By Person Injury Severity & Person Type		
	Number	% of Total
Fatal Injury	Occupant of Passenger Vehicle	4 20.0%
	Occupant of Pickup Truck	3 15.0%
	Occupant of Large Truck	1 5.0%
	Motorcyclist	2 10.0%
	ATV/Motor Scooter/Moped	2 10.0%
	Occupant of Other Type Vehicle	
	Non-Motorist	8 40.0%
	Total	20 100.0%
Incapacitating Injury	Occupant of Passenger Vehicle	77 63.1%
	Occupant of Pickup Truck	23 18.9%
	Occupant of Large Truck	2 1.6%
	Motorcyclist	15 12.3%
	ATV/Motor Scooter/Moped	
	Occupant of Other Type Vehicle	1 0.8%
	Non-Motorist	4 3.3%
	Total	122 100.0%
Non-incapacitating Injury	Occupant of Passenger Vehicle	275 68.8%
	Occupant of Pickup Truck	76 19.0%
	Occupant of Large Truck	11 2.8%
	Motorcyclist	18 4.5%
	ATV/Motor Scooter/Moped	3 0.8%
	Occupant of Other Type Vehicle	5 1.2%
	Non-Motorist	12 3.0%
	Total	400 100.0%
Possible Injury	Occupant of Passenger Vehicle	520 77.8%
	Occupant of Pickup Truck	99 14.8%
	Occupant of Large Truck	17 2.5%
	Motorcyclist	12 1.8%
	ATV/Motor Scooter/Moped	
	Occupant of Other Type Vehicle	13 1.9%
	Non-Motorist	7 1.0%
	Total	668 100.0%

Work Zone-Related Fatalities & Injuries by County (2009) Rates by Population & Vehicle Miles Traveled (VMT)								
County	Estimated Population	Vehicles Miles Traveled	Fatalities	Fatality Rate Per 5,000 Population	Fatality Rate per 100 Million VMT	Injuries	Injury Rate Per 5,000 Population	Injury Rate per 100 Million VMT
Adair	22,683	150,732,816				3	0.66	1.99
Alfalfa	5,642	64,312,109						
Atoka	14,182	368,198,360				4	1.41	1.09
Beaver	5,636	157,422,770						
Beckham	22,119	399,763,972				1	0.23	0.25
Blaine	11,943	142,188,009				2	0.84	1.41
Bryan	42,416	573,461,187	1	0.12	0.17	3	0.35	0.52
Caddo	29,600	429,447,765						
Canadian	115,541	1,490,912,368	4	0.17	0.27	36	1.56	2.41
Carter	47,557	685,140,237				17	1.79	2.48
Cherokee	46,987	392,337,014				14	1.49	3.57
Choctaw	15,205	215,478,798				1	0.33	0.46
Cimarron	2,475	77,928,493	1	2.02	1.28	1	2.02	1.28
Cleveland	255,755	2,371,431,984				81	1.58	3.42
Coal	5,925	95,890,548				3	2.53	3.13
Comanche	124,098	1,090,561,527	1	0.04	0.09	52	2.10	4.77
Cotton	6,193	135,800,356						
Craig	15,029	323,703,265				3	1.00	0.93
Creek	69,967	970,290,008				11	0.79	1.13
Custer	27,469	439,079,995				4	0.73	0.91
Delaware	41,487	400,804,423				2	0.24	0.50
Dewey	4,810	103,653,627						
Ellis	4,151	87,911,860						
Garfield	60,580	571,039,007				2	0.17	0.35
Garvin	27,576	549,840,924	1	0.18	0.18	18	3.26	3.27
Grady	52,431	642,152,143				12	1.14	1.87
Grant	4,527	83,645,641						
Greer	6,239	53,258,077				7	5.61	13.14
Harmon	2,922	26,744,671						
Harper	3,685	80,280,232						
Haskell	12,769	130,694,046				3	1.17	2.30
Hughes	14,003	146,161,914						
Jackson	26,446	252,293,464						
Jefferson	6,472	74,763,410				1	0.77	1.34
Johnston	10,957	119,177,424						
Kay	46,562	582,915,793				12	1.29	2.06
Kingfisher	15,034	179,071,099				1	0.33	0.56
Kiowa	9,446	122,849,514						
Latimer	11,154	133,991,701				1	0.45	0.75
LeFlore	50,384	576,864,947	1	0.10	0.17	16	1.59	2.77
Lincoln	34,273	542,206,296						
Logan	41,848	452,272,037				6	0.72	1.33
Love	9,423	321,763,867						
McClain	34,506	730,650,945	1	0.14	0.14	30	4.35	4.11

Work Zone-Related Fatalities & Injuries by County (2009) Rates by Population & Vehicle Miles Traveled (VMT)								
County	Estimated Population	Vehicles Miles Traveled	Fatalities	Fatality Rate Per 5,000 Population	Fatality Rate per 100 Million VMT	Injuries	Injury Rate Per 5,000 Population	Injury Rate per 100 Million VMT
McCurtain	33,151	420,188,679				3	0.45	0.71
McIntosh	20,252	446,865,865	1	0.25	0.22	13	3.21	2.91
Major	7,527	152,633,255						
Marshall	15,840	155,792,289						
Mayer	41,259	622,166,575						
Murray	13,488	242,270,046				4	1.48	1.65
Muskogee	70,990	898,232,927				20	1.41	2.23
Noble	11,561	364,915,616				6	2.59	1.64
Nowata	10,536	118,835,835				1	0.47	0.84
Okfuskee	12,191	201,450,172				3	1.23	1.49
Oklahoma	718,633	9,967,207,161	1	0.01	0.01	203	1.41	2.04
Okmulgee	40,069	490,330,645				4	0.50	0.82
Osage	47,472	362,619,196				9	0.95	2.48
Ottawa	31,848	566,117,449				7	1.10	1.24
Pawnee	16,577	238,247,560						
Payne	77,350	725,126,469	1	0.06	0.14	7	0.45	0.97
Pittsburg	45,837	713,032,136				5	0.55	0.70
Pontotoc	37,492	413,660,457				7	0.93	1.69
Pottawatomie	69,442	791,714,160	1	0.07	0.13	15	1.08	1.89
Pushmataha	11,572	163,452,880				1	0.43	0.61
Roger Mills	3,647	74,003,429				1	1.37	1.35
Rogers	86,905	1,075,843,592				69	3.97	6.41
Seminole	25,482	383,618,632				6	1.18	1.56
Sequoyah	42,391	581,235,497	1	0.12	0.17	3	0.35	0.52
Stephens	45,048	412,347,866				4	0.44	0.97
Texas	20,640	302,532,002				2	0.48	0.66
Tillman	7,992	85,698,635						
Tulsa	603,403	7,463,193,456	5	0.04	0.07	427	3.54	5.72
Wagoner	73,085	727,910,652				15	1.03	2.06
Washington	50,976	445,191,854				7	0.69	1.57
Washita	11,629	219,693,920						
Woods	8,878	105,156,047				1	0.56	0.95
Woodward	20,081	275,517,242						
Statewide	3,751,351	47,745,890,839	20	0.03	0.04	1180	1.57	2.47
Injuries include incapacitating, non-incapacitating and possible.								
*Population Source: Oklahoma Department of Commerce.								
**Vehicle Miles Traveled Source: Oklahoma Department of Transportation.								

Work Zone-Related Fatalities & Injuries Cities/Towns Population 5,000+ Rates by Population and Vehicles Miles Traveled (VMT)								
City/Town	Population	VMT	Fatalities	Fatality Rate per 5,000 Population	Fatality Rate per 100 Million VMT	Injured	Injury Rate per 5,000 Population	Injury Rate per 100 Million VMT
Ada	16,810	127,493,682				8	2.38	6.27
Altus	19,813	115,293,101						
Anadarko	6,762	35,547,138						
Ardmore	24,283	267,157,699						
Bartlesville	35,750	208,323,031				3	0.42	1.44
Bethany	19,051	139,955,115						
Bixby	20,884	115,188,726				1	0.24	0.87
Blackwell	7,092	33,666,596						
Blanchard	7,670	54,057,767						
Broken Arrow	98,850	752,816,632				12	0.61	1.59
Catoosa	7,151	57,999,449				28	19.58	48.28
Chickasha	16,036	128,074,496				2	0.62	1.56
Choctaw	11,146	84,772,210						
Claremore	18,581	122,957,597				6	1.61	4.88
Clinton	9,033	71,175,329				1	0.55	1.40
Collinsville	5,606	16,970,003						
Coweta	9,943	63,910,598				4	2.01	6.26
Cushing	7,826	37,299,387						
Del City	21,332	218,992,218						
Duncan	23,431	170,792,475				3	0.64	1.76
Durant	15,856	158,697,594				1	0.32	0.63
Edmond	81,405	748,900,226				11	0.68	1.47
El Reno	16,749	237,655,803	2	0.60	0.84	13	3.88	5.47
Elk City	11,693	77,522,500						
Enid	49,379	382,242,385				2	0.20	0.52
Glenpool	10,808	91,000,015						
Grove	6,623	44,754,866				2	1.51	4.47
Guthrie	10,191	65,853,191				5	2.45	7.59
Guymon	11,442	47,300,175						
Harrah	5,095	57,461,070						
Henryetta	5,927	34,648,005						
Holdenville	5,771	18,085,827						
Hugo	5,310	26,203,981						
Idabel	7,010	68,482,906						
Jenks	16,924	186,333,121				1	0.30	0.54
Lawton	96,867	689,798,831	1	0.05	0.14	46	2.37	6.67
Lone Grove	5,054	45,322,050				2	1.98	4.41
McAlester	18,383	108,166,626						
Miami	13,570	76,771,625				3	1.11	3.91
Midwest City	54,371	405,250,860				7	0.64	1.73
Moore	55,081	451,871,380				22	2.00	4.87
Muskogee	39,223	379,988,112				12	1.53	3.16
Mustang	17,395	103,093,038						

Work Zone-Related Fatalities & Injuries Cities/Towns Population 5,000+ Rates by Population and Vehicles Miles Traveled (VMT)								
City/Town	Population	VMT	Fatalities	Fatality Rate per 5,000 Population	Fatality Rate per 100 Million VMT	Injured	Injury Rate per 5,000 Population	Injury Rate per 100 Million VMT
Newcastle	7,685	182,055,634						
Noble	6,481	30,758,988				1	0.77	3.25
Norman	110,925	1,093,263,538				55	2.48	5.03
Oklahoma City	579,999	9,175,394,313	3	0.03	0.03	194	1.67	2.11
Okmulgee	12,321	75,004,080						
Owasso	28,915	134,785,525				2	0.35	1.48
Pauls Valley	6,187	74,581,476				1	0.81	1.34
Perry	5,126	29,940,381						
Piedmont	5,720	22,428,140						
Ponca City	25,387	161,784,567						
Poteau	8,520	93,590,139						
Pryor	9,539	54,978,654						
Purcell	5,884	127,499,442				8	6.80	6.27
Sallisaw	8,880	85,495,238						
Sand Springs	18,906	137,586,243				3	0.79	2.18
Sapulpa	20,544	219,310,319				3	0.73	1.37
Seminole	7,488	70,041,963						
Shawnee	29,857	251,074,280				1	0.17	0.40
Skiatook	7,397	34,012,667						
Stillwater	45,688	274,760,090				2	0.22	0.73
Tahlequah	15,753	129,456,576				1	0.32	0.77
Tecumseh	6,457	53,873,832						
The Village	8,929	60,225,153						
Tulsa	391,906	5,321,911,320	5	0.06	0.09	440	5.61	8.27
Tuttle	6,019	50,581,820						
Vinita	5,743	32,766,525						
Wagoner	8,323	46,887,367						
Warr Acres	10,043	79,650,964				1	0.50	1.26
Watonga	5,111	10,789,630						
Weatherford	10,833	51,284,285						
Woodward	12,051	88,609,488						
Yukon	22,709	149,701,144				8	1.76	5.34
Total	2,402,503	25,731,931,217	11	0.02	0.04	915	1.90	3.56

Injury includes incapacitation, non-incapacitating and possible

*Population Source: Oklahoma Department of Commerce.

**Vehicle Miles Traveled Source: Oklahoma Department of Transportation.