

Work Zone Crashes (2011)

Highway Safety Fact Sheet

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Department of Public Safety
Highway Safety Office

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Work Zone Fatal Crashes & Fatalities Five-Year Trend					
	2007	2008	2009	2010	2011
Work Zone Fatal Crashes	19	17	16	19	17
Total Fatal Crashes	653	673	646	616	609
Work Zone Fatal Crashes as Percentage of Total Fatal Crashes	2.9%	2.5%	2.5%	3.1%	2.8%
Fatalities Occurring in Work Zone Crashes	24	17	18	20	19
Total Fatalities	770	751	737	668	696
Work Zone Fatalities as Percentage of Total Fatalities	3.1%	2.3%	2.4%	3.0%	2.7%



Crashes, Fatalities & Injuries

In 2011 there were 1,979 reported crashes in Work Zones on Oklahoma roads. This represents 2.9% of the total 68,967 crashes reported in 2011. Seventeen crashes involved at least one fatality and 675 involved at least one injured person. These crashes resulted in 19 fatalities and 1,054 persons injured.

Of the 19 fatalities in Work Zone crashes, 8 were drivers, seven were passengers and four were pedestrians.

Restraint Use Among Fatalities

Twelve of the 19 fatalities in Work Zone crashes were occupants of a passenger vehicle or pickup truck. Of these 12 fatalities, five were unrestrained. Two fatalities were motorcyclists that were not wearing a helmet.

Driver Age & Sex

In 2011, there were 3,931 drivers involved in crashes that occurred in Work Zones. Of these 3,931 drivers, 21.3% were age 26-35, 20.5% were age 16-25, 18.1% were age 46-55 and 17.6% were age 36-45. Some 60.8% of the drivers were male.

Drivers in Work Zone Crashes (2011) Driver Age & Driver Sex								
	Person Sex							
	Unknown		Female		Male		Total	
	Number	% of Total	Number	% of Total	Number	% of Total	Number	% of Total
Unknown	75	100.0%	12	0.8%	34	1.4%	121	3.1%
Under 16			1	0.1%	2	0.1%	3	0.1%
16 - 25			374	25.5%	430	18.0%	804	20.5%
26 - 35			321	21.9%	516	21.6%	837	21.3%
36 - 45			246	16.8%	445	18.6%	691	17.6%
46 - 55			225	15.4%	486	20.3%	711	18.1%
56 - 65			158	10.8%	262	11.0%	420	10.7%
66 - 75			75	5.1%	131	5.5%	206	5.2%
76+			52	3.6%	86	3.6%	138	3.5%
Total	75	100.0%	1464	100.0%	2392	100.0%	3931	100.0%

Alcohol-Related Driver Condition

Some 2.6% (103) of the drivers in Work Zone crashes had an alcohol-related driver condition. Of these 103 drivers with an alcohol-related driver condition, 29.1% were age 26-35, 27.2% were age 16-25 and 22.3% were age 36-45. Some 85.4% of the drivers were male.

Drivers in Work Zone Crashes (2011) 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								
Under 16								
16 - 25			4	26.7%	24	27.3%	28	27.2%
26 - 35			6	40.0%	24	27.3%	30	29.1%
36 - 45			4	26.7%	19	21.6%	23	22.3%
46 - 55			1	6.7%	17	19.3%	18	17.5%
56 - 65					4	4.5%	4	3.9%
66 - 75								
76+								
Total			15	100.0%	88	100.0%	103	100.0%

Driver Contributing Factors

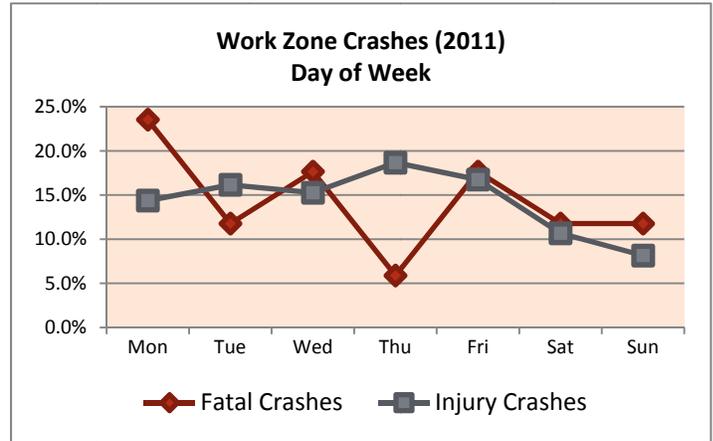
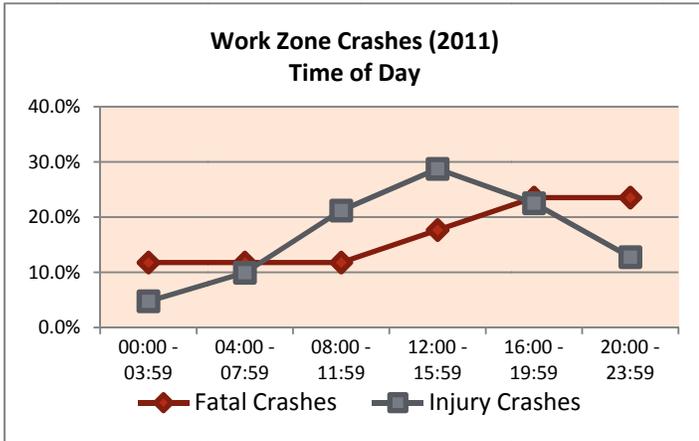
Some 10.7% of the drivers in Work Zone crashes were following too closely, 8.8% were driving at an unsafe speed, 7.0% made an improper movement, 6.9% were inattentive and 4.8% failed to yield.

A closer look at the primary contributing factor of following too closely shows that 68.7% were following too closely for traffic conditions, 28.2% were following too closely-human element and 3.1% were following too closely for weather conditions..

Time & Day

Fatal Work Zone crashes occurred more often between 4:00 p.m. (16:00) and 11:59 p.m. (23:59). Injury Work Zone crashes occurred more often between 12:00 Noon (12:00) and 3:59 p.m. (15:59).

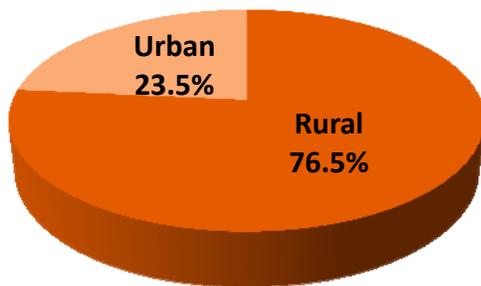
Fatal Work Zone crashes occurred more often on Monday than any other day of the week. Injury Work Zone crashes occurred more often on Thursday than any other day of the week.



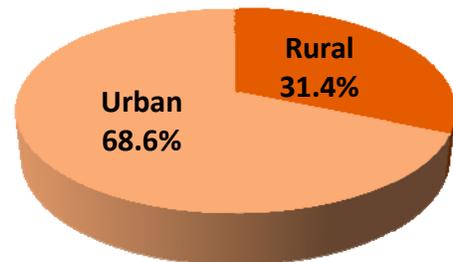
Rural vs. Urban

Statewide in 2011, three times as many fatal Work Zone crashes occurred in rural areas as urban areas. Twice as many injury crashes occurred in urban areas as rural areas.

Work Zone Fatal Crashes (2011)



Work Zone Injury Crashes (2011)



Work Zone-Related Fatalities & Injuries by County (2011) 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	22,612	148,241,100				8	1.77	5.40
Alfalfa	5,662	93,188,150				2	1.77	2.15
Atoka	14,206	362,065,400						
Beaver	5,624	152,989,750						
Beckham	22,288	405,274,100				5	1.12	1.23
Blaine	9,780	142,247,800				8	4.09	5.62
Bryan	43,089	567,042,100				16	1.86	2.82
Caddo	29,537	424,356,300				4	0.68	0.94
Canadian	119,492	1,533,127,750				48	2.01	3.13
Carter	48,096	675,972,700				5	0.52	0.74
Cherokee	47,845	390,181,350				6	0.63	1.54
Choctaw	15,250	214,963,100	1	0.33	0.47	10	3.28	4.65
Cimarron	2,487	81,219,800				12	24.13	14.77
Cleveland	261,281	2,369,558,100				25	0.48	1.06
Coal	5,928	86,286,000	1	0.84	1.16	1	0.84	1.16
Comanche	125,815	1,076,023,650				23	0.91	2.14
Cotton	6,179	130,721,100						
Craig	15,073	306,676,650				1	0.33	0.33
Creek	70,467	929,100,200				21	1.49	2.26
Custer	27,750	447,782,000						
Delaware	41,633	387,739,500				4	0.48	1.03
Dewey	4,867	102,448,200						
Ellis	4,051	89,370,250				2	2.47	2.24
Garfield	60,670	564,187,800				5	0.41	0.89
Garvin	27,452	561,640,100				6	1.09	1.07
Grady	53,020	637,457,900				11	1.04	1.73
Grant	4,585	82,157,850				3	3.27	3.65
Greer	6,125	51,757,000						
Harmon	2,919	25,447,800						
Harper	3,695	80,358,400						
Haskell	12,810	129,443,600						
Hughes	13,843	143,302,650				1	0.36	0.70
Jackson	26,447	243,582,750						
Jefferson	6,506	72,631,350				1	0.77	1.38
Johnston	11,139	116,938,700						
Kay	46,159	588,201,150				17	1.84	2.89
Kingfisher	15,213	181,543,700				10	3.29	5.51
Kiowa	9,416	120,690,900				2	1.06	1.66
Latimer	11,155	114,931,200						
LeFlore	50,628	569,473,000						
Lincoln	34,155	539,758,350				2	0.29	0.37
Logan	42,499	455,187,850						
Love	9,386	333,927,550				28	14.92	8.39
McClain	35,235	729,317,450				17	2.41	2.33

Work Zone-Related Fatalities & Injuries by County (2011) 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	33,195	416,019,700				5	0.75	1.20
McIntosh	20,360	438,854,100	1	0.25	0.23	11	2.70	2.51
Major	7,657	151,562,600				1	0.65	0.66
Marshall	16,049	156,293,000				3	0.93	1.92
Mayer	41,389	604,607,900						
Murray	13,571	244,608,400	1	0.37	0.41	3	1.11	1.23
Muskogee	71,003	906,378,950				22	1.55	2.43
Noble	11,578	363,642,200						
Nowata	10,629	117,435,100	1	0.47	0.85	4	1.88	3.41
Okfuskee	12,348	193,479,200				9	3.64	4.65
Oklahoma	732,371	9,924,470,450	1	0.01	0.01	204	1.39	2.06
Okmulgee	39,937	488,234,950				9	1.13	1.84
Osage	47,425	361,350,000	3	0.32	0.83	9	0.95	2.49
Ottawa	31,860	541,185,500				11	1.73	2.03
Pawnee	16,730	228,949,900						
Payne	77,988	724,481,200				7	0.45	0.97
Pittsburg	45,625	703,395,150	1	0.11	0.14	6	0.66	0.85
Pontotoc	37,799	401,583,950				15	1.98	3.74
Pottawatomie	70,280	792,586,550				14	1.00	1.77
Pushmataha	11,478	155,960,850						
Roger Mills	3,702	89,706,050						
Rogers	87,706	1,040,490,900	4	0.23	0.38	16	0.91	1.54
Seminole	25,292	386,794,150	1	0.20	0.26	15	2.97	3.88
Sequoyah	42,341	559,625,300				20	2.36	3.57
Stephens	45,197	413,979,350				4	0.44	0.97
Texas	21,312	314,918,350				2	0.47	0.64
Tillman	8,061	81,639,550						
Tulsa	610,599	7,427,359,450	3	0.02	0.04	339	2.78	4.56
Wagoner	74,098	726,561,700				1	0.07	0.14
Washington	51,476	445,478,850	1	0.10	0.22	13	1.26	2.92
Washita	11,574	215,981,450				1	0.43	0.46
Woods	8,775	106,915,800				2	1.14	1.87
Woodward	20,034	280,549,950				4	1.00	1.43
Statewide	3,791,508	47,463,592,600	19	0.03	0.04	1054	1.39	2.22
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	16,942	127,322,950				1	0.30	0.79
Altus	19,814	115,273,205						
Anadarko	6,747	35,031,605						
Ardmore	24,553	264,943,645						
Bartlesville	36,099	210,792,245				12	1.66	5.69
Bethany	19,406	139,400,435				2	0.52	1.43
Bixby	21,137	115,151,660				2	0.47	1.74
Blackwell	7,031	33,548,975						
Blanchard	7,800	52,825,355						
Broken Arrow	100,073	744,414,945				6	0.30	0.81
Catoosa	7,226	53,274,305						
Chickasha	16,210	128,745,720				9	2.78	6.99
Choctaw	11,364	84,386,540						
Claremore	18,745	121,667,275				1	0.27	0.82
Clinton	9,127	71,871,055						
Collinsville	5,672	17,871,860						
Coweta	9,505	64,524,700				1	0.53	1.55
Cushing	7,890	37,515,065						
Del City	21,746	226,423,735				5	1.15	2.21
Duncan	23,507	173,182,280				1	0.21	0.58
Durant	16,097	158,447,230				6	1.86	3.79
Edmond	82,963	742,254,145				5	0.30	0.67
El Reno	17,268	79,022,135						
Elk City	11,789	249,524,220				1	0.42	0.40
Enid	49,451	373,582,975				5	0.51	1.34
Glenpool	10,938	91,429,215						
Grove	6,647	46,015,185				1	0.75	2.17
Guthrie	10,345	64,430,530						
Guymon	11,823	47,157,270						
Harrah	5,193	56,157,075						
Henryetta	5,907	34,979,775						
Holdenville	5,714	18,175,905						
Hugo	5,326	26,140,935						
Idabel	7,018	67,892,555				1	0.71	1.47
Jenks	17,130	184,818,480						
Lawton	98,177	681,938,625				18	0.92	2.64
Lone Grove	5,111	44,069,005				5	4.89	11.35
McAlester	18,306	113,611,725						
Miami	13,577	76,997,845				3	1.10	3.90
Midwest City	55,427	404,616,735				2	0.18	0.49
Moore	56,315	449,683,650				6	0.53	1.33
Muskogee	39,231	393,981,365				15	1.91	3.81

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
Mustang	18,002	105,965,340						
Newcastle	7,847	180,965,175						
Noble	6,624	29,422,285				1	0.75	3.40
Norman	113,273	1,090,765,270				15	0.66	1.38
Oklahoma City	591,967	9,145,140,700	1	0.01	0.01	235	1.98	2.57
Okmulgee	12,283	75,208,980				4	1.63	5.32
Owasso	29,854	144,949,530						
Pauls Valley	6,160	76,929,590						
Perry	5,133	30,310,330						
Piedmont	5,921	22,428,155						
Ponca City	25,168	162,441,425				2	0.40	1.23
Poteau	8,556	93,808,650						
Pryor	9,565	53,859,035						
Purcell	6,006	127,607,650				12	9.99	9.40
Sallisaw	8,874	83,485,720				3	1.69	3.59
Sand Springs	19,140	129,280,810				4	1.04	3.09
Sapulpa	20,691	207,925,170						
Seminole	7,434	70,450,110						
Shawnee	30,212	253,866,990				3	0.50	1.18
Skiatook	7,389	38,001,610						
Stillwater	46,048	271,968,070				3	0.33	1.10
Tahlequah	16,021	131,218,960				4	1.25	3.05
Tecumseh	6,537	53,711,210						
The Village	9,103	62,247,830						
Tulsa	396,466	5,308,557,080	3	0.04	0.06	305	3.85	5.75
Tuttle	6,087	50,672,220						
Vinita	5,761	31,634,915						
Wagoner	8,436	46,730,220						
Warr Acres	10,238	81,464,715						
Weatherford	10,939	51,354,040						
Woodward	11,944	89,817,010						
Yukon	23,491	149,744,535						
Total	2,431,517	25,675,027,465	4	0.01	0.02	699	1.44	2.72

Injury includes incapacitation, non-incapacitating and possible

*Population Source: Oklahoma Department of Commerce.

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