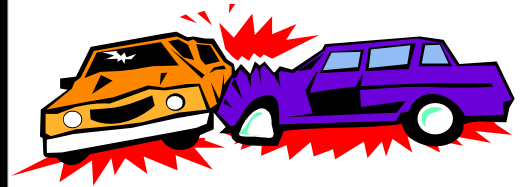


# Overview



## Section 1: Overview

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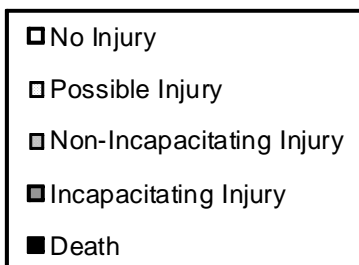
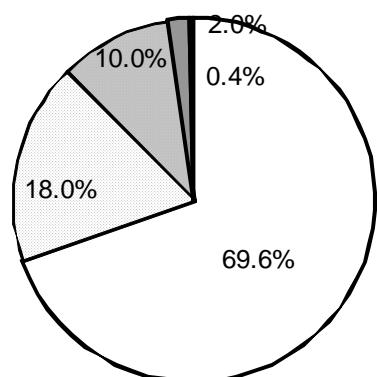


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## Crash Conditions

### Crash Severity (Utah 2016)



- For crashes that occurred in Utah during 2016, 69.6% resulted in property damage only, 30% resulted in some level of injury, and 0.4% involved a death.

### Month (Utah 2016)

Month	Crashes							
	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	Rate per Day	#	Rate per Day	#	Rate per Day	#	Rate per Day
January	4,128	133.2	1,475	47.6	13	0.42	5,616	181.2
February	3,295	113.6	1,296	44.7	16	0.55	4,607	158.9
March	3,240	104.5	1,411	45.5	14	0.45	4,665	150.5
April	3,167	105.6	1,440	48.0	23	0.77	4,630	154.3
May	3,336	107.6	1,560	50.3	28	0.90	4,924	158.8
June	3,372	112.4	1,622	54.1	30	1.00	5,024	167.5
July	3,245	104.7	1,603	51.7	30	0.97	4,878	157.4
August	3,509	113.2	1,670	53.9	15	0.48	5,194	167.5
September	3,720	124.0	1,769	59.0	27	0.90	5,516	183.9
October	3,595	116.0	1,651	53.3	27	0.87	5,273	170.1
November	4,385	146.2	1,633	54.4	25	0.83	6,043	201.4
December	4,473	144.3	1,617	52.2	11	0.35	6,101	196.8
<b>Total</b>	<b>43,465</b>	<b>118.8</b>	<b>18,747</b>	<b>51.2</b>	<b>259</b>	<b>0.71</b>	<b>62,471</b>	<b>170.7</b>

- Total crash rates per day were highest in November and December.
- Total crash rates per day were lowest in March and April.
- The highest rate per day for fatal crashes occurred during June and the lowest fatal rate occurred in December.

### Day of Week (Utah 2016)

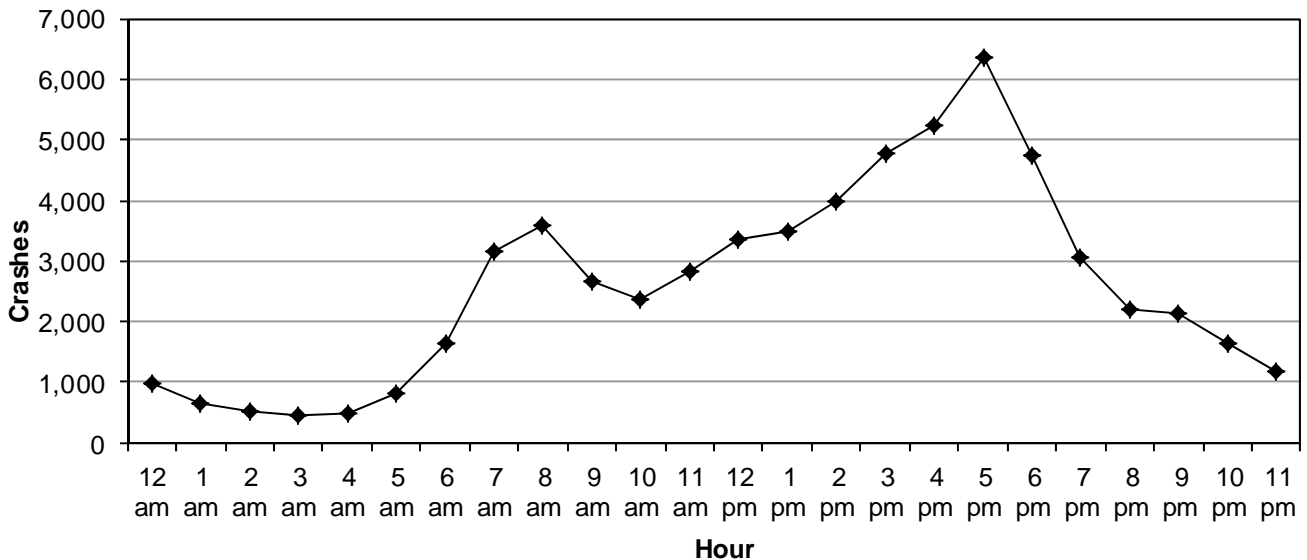
Day of Week	Crashes							
	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Sunday	3,564	8.2%	1,586	8.5%	34	13.1%	5,184	8.3%
Monday	6,933	16.0%	2,896	15.4%	35	13.5%	9,864	15.8%
Tuesday	6,648	15.3%	2,832	15.1%	31	12.0%	9,511	15.2%
Wednesday	6,620	15.2%	2,830	15.1%	41	15.8%	9,491	15.2%
Thursday	6,702	15.4%	2,926	15.6%	33	12.7%	9,661	15.5%
Friday	7,442	17.1%	3,152	16.8%	41	15.8%	10,635	17.0%
Saturday	5,556	12.8%	2,525	13.5%	44	17.0%	8,125	13.0%
<b>Total</b>	<b>43,465</b>	<b>100.0%</b>	<b>18,747</b>	<b>100.0%</b>	<b>259</b>	<b>100.0%</b>	<b>62,471</b>	<b>100.0%</b>

- The highest percentage of total crashes occurred on Friday.
- The highest percentage of fatal crashes occurred on Saturday.
- Crashes on the weekend were 1.6 times more likely to be fatal than weekday crashes.

# Crash Conditions

## Hour (Utah 2016)

Hour	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Midnight	681	1.6%	307	1.6%	5	1.9%	993	1.6%
1 a.m.	429	1.0%	226	1.2%	5	1.9%	660	1.1%
2 a.m.	359	0.8%	144	0.8%	7	2.7%	510	0.8%
3 a.m.	306	0.7%	140	0.7%	10	3.9%	456	0.7%
4 a.m.	327	0.8%	144	0.8%	3	1.2%	474	0.8%
5 a.m.	610	1.4%	210	1.1%	9	3.5%	829	1.3%
6 a.m.	1,220	2.8%	415	2.2%	4	1.5%	1,639	2.6%
7 a.m.	2,296	5.3%	864	4.6%	9	3.5%	3,169	5.1%
8 a.m.	2,548	5.9%	1,022	5.5%	6	2.3%	3,576	5.7%
9 a.m.	1,901	4.4%	765	4.1%	5	1.9%	2,671	4.3%
10 a.m.	1,666	3.8%	704	3.8%	9	3.5%	2,379	3.8%
11 a.m.	1,980	4.6%	852	4.5%	11	4.2%	2,843	4.6%
Noon	2,302	5.3%	1,031	5.5%	14	5.4%	3,347	5.4%
1 p.m.	2,398	5.5%	1,080	5.8%	26	10.0%	3,504	5.6%
2 p.m.	2,729	6.3%	1,230	6.6%	18	6.9%	3,977	6.4%
3 p.m.	3,304	7.6%	1,472	7.9%	14	5.4%	4,790	7.7%
4 p.m.	3,621	8.3%	1,614	8.6%	17	6.6%	5,252	8.4%
5 p.m.	4,381	10.1%	1,970	10.5%	14	5.4%	6,365	10.2%
6 p.m.	3,236	7.4%	1,510	8.1%	15	5.8%	4,761	7.6%
7 p.m.	2,151	4.9%	901	4.8%	20	7.7%	3,072	4.9%
8 p.m.	1,554	3.6%	655	3.5%	11	4.2%	2,220	3.6%
9 p.m.	1,481	3.4%	649	3.5%	10	3.9%	2,140	3.4%
10 p.m.	1,166	2.7%	484	2.6%	7	2.7%	1,657	2.7%
11 p.m.	819	1.9%	358	1.9%	10	3.9%	1,187	1.9%
<b>Total</b>	<b>43,465</b>	<b>100.0%</b>	<b>18,747</b>	<b>100.0%</b>	<b>259</b>	<b>100.0%</b>	<b>62,471</b>	<b>100.0%</b>



- Total crashes were more likely to occur between 3:00 p.m. and 6:59 p.m., with a peak at 5:00 p.m.
- Fatal crashes were highest during the 1:00 p.m. and 7:00 p.m. hours.

## Crash Conditions

### Crashes by Day of Week and Hour (Utah 2016)

Crashes								
Hour	Day of Week							Total #
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	
Midnight	211	112	111	105	131	148	175	993
1 a.m.	169	68	55	70	73	94	132	661
2 a.m.	124	56	45	54	51	72	107	509
3 a.m.	103	42	45	32	52	79	103	456
4 a.m.	77	70	57	49	60	74	87	474
5 a.m.	103	157	126	140	105	128	71	830
6 a.m.	105	303	285	279	252	261	153	1,638
7 a.m.	153	586	614	596	569	474	177	3,169
8 a.m.	178	670	650	630	577	585	287	3,577
9 a.m.	196	449	451	403	450	428	295	2,672
10 a.m.	233	356	369	314	334	369	404	2,379
11 a.m.	225	486	399	403	393	482	455	2,843
Noon	250	492	502	467	535	546	555	3,347
1 p.m.	292	576	468	467	488	622	590	3,503
2 p.m.	309	642	566	620	605	702	532	3,976
3 p.m.	315	792	750	733	758	881	561	4,790
4 p.m.	313	852	854	839	861	963	569	5,251
5 p.m.	344	1,053	1,103	1,120	1,101	1,055	590	6,366
6 p.m.	321	758	758	807	772	856	490	4,762
7 p.m.	286	401	432	460	473	569	451	3,072
8 p.m.	265	332	287	287	318	373	357	2,219
9 p.m.	271	274	241	275	335	381	362	2,139
10 p.m.	184	198	188	218	237	288	345	1,658
11 p.m.	158	138	154	124	133	202	278	1,187
<b>Total</b>	<b>5,185</b>	<b>9,863</b>	<b>9,510</b>	<b>9,492</b>	<b>9,663</b>	<b>10,632</b>	<b>8,126</b>	<b>62,471</b>

High = 500+
Medium = 200-499
Low = 0-199

- Crashes were highest Monday through Saturday 12:00 p.m. to 6:59 p.m. and Monday through Thursday 7:00 a.m. to 8:59 a.m.
- Crashes were lowest everyday 11:00 p.m. to 5:59 a.m.

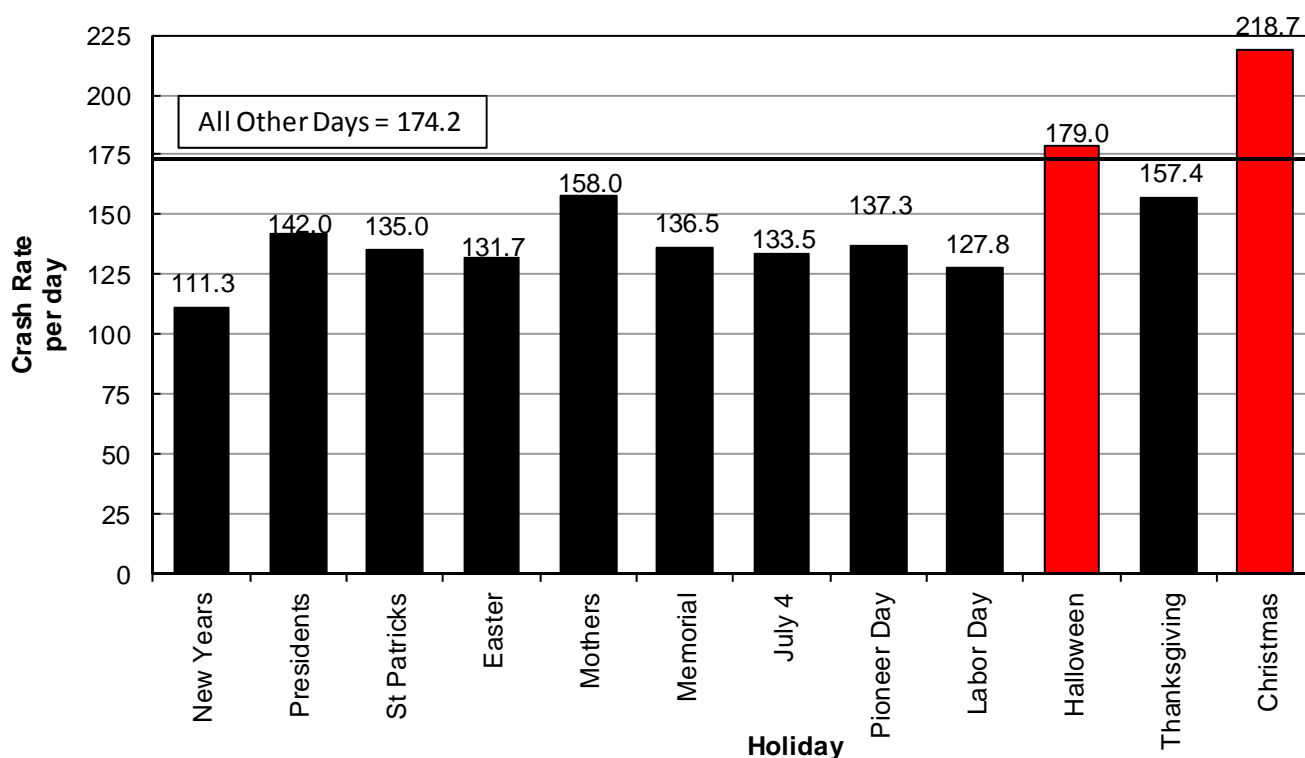
### Road Surface Condition (Utah 2016)

Crashes								
Road Surface Condition	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Dry	34,658	79.7%	15,680	83.6%	221	85.3%	50,559	80.9%
Wet	4,537	10.4%	1,902	10.1%	15	5.8%	6,454	10.3%
Snow/Slush	2,742	6.3%	685	3.7%	6	2.3%	3,433	5.5%
Ice	898	2.1%	229	1.2%	3	1.2%	1,130	1.8%
Other	215	0.5%	175	0.9%	5	1.9%	395	0.6%
Unknown	415	1.0%	76	0.4%	9	3.5%	500	0.8%
<b>Total</b>	<b>43,465</b>	<b>100.0%</b>	<b>18,747</b>	<b>100.0%</b>	<b>259</b>	<b>100.0%</b>	<b>62,471</b>	<b>100.0%</b>

- Most total crashes (81%) and fatal crashes (85%) occurred when roads were dry.

## Holidays

### Holiday Crash Rate Per Day (Utah 2016)



Holiday Crashes			
Holiday	#	Days	Rate Per Day
New Years	445	4	111.3
Presidents	568	4	142.0
St Patricks	675	5	135.0
Easter	395	3	131.7
Mothers	474	3	158.0
Memorial Day	546	4	136.5
4th of July	534	4	133.5
Pioneer Day	412	3	137.3
Labor Day	511	4	127.8
Halloween	716	4	179.0
Thanksgiving	787	5	157.4
Christmas	656	3	218.7
<b>Total</b>	<b>6,719</b>	<b>46</b>	<b>146.1</b>
<b>All Other Days</b>	<b>55,752</b>	<b>320</b>	<b>174.2</b>

- The total number of miles traveled decreases during holidays. Corresponding with this reduced travel, crashes also were lower during holiday periods (146 per day compared to 174 per day)
- The Christmas Holiday had the highest crash rate per day (219) while the New Years Holiday had the lowest rate (111).
- Only the Christmas (219) and Halloween (179) Holidays had a higher crash rate per day than the rate per day for all days (174).

Note: Because of the differing lengths of holiday periods, the rate per day is provided and should be used for comparisons.

## Crash Conditions

### County Crash Comparison (Utah 2016)

County Crash Comparison														
County	Fatal Crash Rate per VMT Rank	Overall Crash Rate per VMT Rank	Percent of Crash Occupants Unrestrained Rank	Speed Crash Rate per VMT Rank	Alcohol-Related Crash Rate per VMT Rank	Drug-Related Crash Rate per VMT Rank	Dis-tracted Driver Crash Rate per VMT Rank	Drowsy Driver Crash Rate per VMT Rank	Crash % With Teen Driver Rank	Crash % With Older Driver Rank	Motor-cycle Crash Rate per Rgstrd Mtrcycl Rank	Pedes-trian Crash Rate per Pop. Rank	Bicy-clist Crash Rate per Pop. Rank	Total County Highway Safety Ranking
Weber	14	2	24	11	2	1	2	12	6	9	16	4	2	8.1
Salt Lake	20	1	25	2	1	2	1	13	13	21	14	2	1	8.9
Wasatch	7	6	20	1	4	20	13	5	9	20	10	5	9	9.9
Cache	12	3	26	7	8	14	3	15	2	17	19	8	8	10.9
Tooele	5	14	9	19	3	4	7	8	10	22	20	11	10	10.9
Washington	18	8	23	23	5	11	6	11	4	2	11	9	11	10.9
Garfield	1	7	14	9	15	13	16	22	28	6	3	10	4	11.4
Davis	19	5	28	12	11	6	5	14	5	11	26	6	5	11.8
Utah	22	4	27	6	19	5	4	16	3	24	21	7	6	12.6
Sevier	8	21	5	18	13	3	15	4	19	8	25	13	16	12.9
Box Elder	15	12	17	4	22	26	12	2	8	15	17	1	19	13.1
Sanpete	9	10	2	17	7	15	9	26	1	7	27	19	21	13.1
Iron	23	17	18	14	16	9	10	23	11	10	9	12	18	14.6
Rich	27	9	6	5	10	18	14	18	14	29	1	20	22	14.8
Piute	2	15	1	22	24	28	26	3	29	1	2	20	22	15.0
Wayne	27	16	8	15	9	17	8	17	26	13	4	20	22	15.5
Beaver	27	23	3	8	20	16	19	6	17	19	6	20	22	15.8
Summit	24	11	19	10	6	23	17	20	21	25	23	3	12	16.5
Carbon	17	20	15	21	17	24	20	10	12	5	28	16	14	16.8
Emery	6	27	7	24	23	21	25	9	22	12	13	20	15	17.2
Uintah	25	18	13	25	12	7	18	28	7	18	15	18	20	17.2
Morgan	21	19	21	3	14	8	22	19	16	28	12	20	22	17.3
Grand	13	28	11	29	28	27	21	21	23	4	8	14	3	17.7
Millard	16	26	10	13	25	22	23	7	20	23	18	20	7	17.7
Juab	11	25	12	16	27	25	27	1	15	16	24	17	17	17.9
Duchesne	26	22	4	20	18	12	11	24	18	27	29	15	13	18.4
Daggett	3	29	29	26	29	10	28	29	25	3	5	20	22	19.8
San Juan	4	24	16	27	26	28	29	25	27	14	7	20	22	20.7
Kane	10	13	22	28	21	19	24	27	24	26	22	20	22	21.4
<b>Note:</b>	Rank 1-18 Above State Avg.	Rank 1-3 Above State Avg.	Rank 1-20 Above State Avg.	Rank 1-6 Above State Avg.	Rank 1-3 Above State Avg.	Rank 1-4 Above State Avg.	Rank 1-5 Above State Avg.	Rank 1-13 Above State Avg.	Rank 1-8 Above State Avg.	Rank 1-17 Above State Avg.	Rank 1-15 Above State Avg.	Rank 1-3 Above State Avg.	Rank 1-2 Above State Avg.	Total Safety Ranking Average = 14.8

This is a comparison developed to evaluate the different counties using a County Highway Safety Ranking. Each County is ranked with 1 being the worst ranking and 29 being the best ranking on various categories. The bottom row shows what counties ranked above the state average for that category. Counties above the state average are marked in gray for that category. The average of all the categories was taken to arrive at an overall ranking.

- Weber, Salt Lake, and Wasatch Counties were the worst overall counties. Weber County was above the state average in nine of the thirteen categories.
- Kane, San Juan, and Daggett Counties were the best overall counties. Kane County was below the state average in every category except one.
- In 2015, Salt Lake was the worst county and Juab was the best. In 2014, Salt Lake was the worst county and Millard was the best. In 2013, Weber was the worst county and Piute was the best. In 2012, Weber was the worst county and Juab was the best. In 2011, Duchesne was the worst county and Millard was the best.

## Crash Conditions

### Crashes by County (Utah 2016)

County	Crashes							
	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	Rate per 100 Million VMT	#	Rate per 100 Million VMT	#	Rate per 100 Million VMT	#	Rate per 100 Million VMT
Salt Lake	19,674	199.9	8,546	86.8	67	0.68	28,287	287.4
Weber	2,836	157.9	1,560	86.9	17	0.95	4,413	245.7
Cache	1,557	156.3	496	49.8	11	1.10	2,064	207.2
Utah	6,376	135.0	2,960	62.7	29	0.61	9,365	198.3
Davis	3,972	134.3	1,780	60.2	24	0.81	5,776	195.2
Wasatch	554	137.9	165	41.1	7	1.74	726	180.7
Garfield	165	126.8	60	46.1	5	3.84	230	176.7
Washington	1,845	111.1	847	51.0	14	0.84	2,706	162.9
Rich	58	105.5	23	41.8	0	0.00	81	147.4
Sanpete	265	106.8	95	38.3	4	1.61	364	146.7
Summit	898	104.8	291	34.0	4	0.47	1,193	139.2
Box Elder	972	96.3	378	37.4	9	0.89	1,359	134.6
Kane	156	93.8	50	30.1	2	1.20	208	125.1
Tooele	749	83.0	340	37.7	18	1.99	1,107	122.6
Piute	28	85.8	10	30.7	1	3.07	39	119.6
Wayne	40	73.1	24	43.9	0	0.00	64	117.0
Iron	698	83.6	249	29.8	4	0.48	951	113.9
Uintah	397	90.6	100	22.8	2	0.46	499	113.9
Morgan	131	88.0	34	22.8	1	0.67	166	111.5
Carbon	292	83.3	90	25.7	3	0.86	385	109.8
Sevier	274	74.8	110	30.0	6	1.64	390	106.5
Duchesne	234	71.4	67	20.5	1	0.31	302	92.2
Beaver	175	57.9	76	25.2	0	0.00	251	83.1
San Juan	220	66.4	38	11.5	8	2.41	266	80.3
Juab	262	58.3	86	19.1	5	1.11	353	78.6
Millard	301	53.3	128	22.7	5	0.89	434	76.8
Emery	170	43.6	79	20.3	7	1.80	256	65.7
Grand	153	37.7	65	16.0	4	0.99	222	54.7
Daggett	13	37.5	0	0.0	1	2.88	14	40.4
<b>Statewide</b>	<b>43,465</b>	<b>141.2</b>	<b>18,747</b>	<b>60.9</b>	<b>259</b>	<b>0.84</b>	<b>62,471</b>	<b>203.0</b>

- Salt Lake (287), Weber (246), and Cache (207) Counties had the highest total crash rates per vehicle miles traveled (VMT).
- Daggett (40), Grand (55), and Emery (66) Counties had the lowest total crash rates per miles traveled.
- Garfield (3.8), Piute (3.1), and Daggett (2.9) Counties had the highest fatal crash rates per miles traveled.
- Beaver, Rich, and Wayne Counties had no fatal crashes.
- 45% of crashes occurred in Salt Lake County.

### Rural/Urban Location (Utah 2016)

- While urban areas had a higher rate of total crashes per vmt, rural areas had a higher fatal crash rate.
- Crashes occurring in rural areas were 3.2 times more likely to result in a death than crashes in urban areas.

Location	Crashes							
	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	Rate per 100 Million VMT	#	Rate per 100 Million VMT	#	Rate per 100 Million VMT	#	Rate per 100 Million VMT
Urban	36,260	165.0	16,189	73.7	162	0.737	52,611	239.4
Rural	7,205	81.9	2,558	29.1	97	1.102	9,860	112.0
<b>Total</b>	<b>43,465</b>	<b>141.2</b>	<b>18,747</b>	<b>60.9</b>	<b>259</b>	<b>0.841</b>	<b>62,471</b>	<b>203.0</b>



# Crash Conditions

## Crashes by City (Utah 2016)

Total Crash Rate for Cities With Population 5,000+ or 50+ Crashes											
Rank by Rate	Rank by Total	City	Population	Total Crashes	Rate per 10,000 Pop.	Rank by Rate	Rank by Total	City	Population	Total Crashes	Rate per 10,000 Pop.
1	55	Marriot-Slaterville	1,701	178	1,046.4	50	70	Nephi	5,389	88	163.3
2	63	Willard	1,772	120	677.2	51	28	Cottonwood Heights	33,433	541	161.8
3	73	Uintah	1,322	85	643.0	52	44	South Ogden	16,532	263	159.1
4	34	Park City	7,547	447	592.3	53	86	Hyde Park	3,833	59	153.9
5	14	South Salt Lake	23,617	1,378	583.5	54	43	Saratoga Springs	17,781	272	153.0
6	33	Riverdale	8,426	465	551.9	55	76	Moab	5,046	77	152.6
7	3	Murray	46,746	2,506	536.1	56	24	Riverton	38,753	590	152.2
8	15	Midvale	27,964	1,279	457.4	57	40	Herriman	21,785	328	150.6
9	10	Draper	40,532	1,620	399.7	58	29	Kearns	35,731	535	149.7
10	37	Lindon	10,070	390	387.3	59	36	Holladay	26,472	395	149.2
11	50	West Bountiful	5,265	194	368.5	60	9	Provo	112,488	1,670	148.5
12	48	Farr West	5,928	217	366.1	61	31	Pleasant Grove	33,509	495	147.7
13	27	North Salt Lake	16,322	581	356.0	62	66	Tremonton	7,647	112	146.5
14	2	West Valley City	129,480	4,162	321.2	63	22	Bountiful	42,552	623	146.4
15	26	Farmington	18,275	584	319.6	64	45	Brigham City	17,899	253	141.3
16	68	Wellsville	3,432	107	311.8	65	50	Hurricane	13,748	194	141.1
17	7	Taylorsville	58,652	1,760	300.1	66	35	Tooele	31,605	442	139.9
18	13	Lehi	47,407	1,387	292.6	67	72	Salem	6,423	87	135.5
19	4	Sandy	87,461	2,496	285.4	68	81	Fruit Heights	4,987	67	134.3
20	62	Perry	4,512	126	279.3	69	65	Santaquin	9,128	118	129.3
21	58	Sunset	5,122	140	273.3	70	64	Woods Cross	9,761	119	121.9
22	1	Salt Lake City	186,440	5,031	269.8	71	39	Kaysville	27,300	330	120.9
23	38	Centerville	15,335	385	251.1	72	78	South Weber	6,051	73	120.6
24	47	Vernal	9,089	220	242.1	73	67	Smithfield	9,495	110	115.9
25	17	South Jordan	50,418	1,220	242.0	74	80	Roosevelt	6,046	69	114.1
26	11	Layton	67,311	1,601	237.9	75	75	Pleasant View	7,979	78	97.8
27	23	American Fork	26,263	622	236.8	76	49	Clinton	20,426	197	96.4
28	8	St. George	72,897	1,720	235.9	77	79	Richfield	7,551	70	92.7
29	18	Logan	48,174	1,089	226.1	78	88	Plain City	5,476	50	91.3
30	53	North Logan	8,269	184	222.5	79	89	Nibley	5,438	49	90.1
31	20	Springville	29,466	654	222.0	80	83	Providence	7,075	63	89.0
32	21	Clearfield	30,112	649	215.5	81	74	Grantsville	8,893	79	88.8
33	46	West Haven	10,272	221	215.1	82	61	Highland	15,523	136	87.6
34	19	Roy	36,884	782	212.0	83	82	Hyrum	7,609	64	84.1
35	54	Price	8,715	183	210.0	84	76	West Point	9,511	77	81.0
36	6	Orem	88,328	1,805	204.4	85	60	North Ogden	17,357	137	78.9
37	56	Bluffdale	7,598	155	204.0	86	90	Ephraim	6,135	46	75.0
38	16	Millcreek	62,139	1,229	197.8	87	87	Mapleton	7,979	55	68.9
39	5	West Jordan	103,712	2,047	197.4	88	85	Washington Terrace	9,067	60	66.2
40	84	Beaver	3,112	61	196.0	89	59	Eagle Mountain	21,415	138	64.4
41	69	Harrisville	5,567	102	183.2	90	57	Syracuse	24,331	141	58.0
42	40	Payson	18,294	328	179.3	91	91	Hooper	7,218	39	54.0
43	30	Cedar City	28,857	515	178.5	92	93	Enoch	5,803	25	43.1
44	32	Magna	26,505	471	177.7	93	93	Santa Clara	6,003	25	41.6
45	42	Washington	18,761	327	174.3	94	92	Alpine	9,555	38	39.8
46	70	Stansbury Park	5,145	88	171.0	95	96	Ivins	6,753	14	20.7
47	52	Heber	11,362	193	169.9	96	95	Cedar Hills	9,796	18	18.4
48	25	Spanish Fork	34,691	585	168.6						
49	12	Ogden	82,825	1,395	168.4						
								<b>Total</b>	<b>2,418,381</b>	<b>53,593</b>	<b>221.6</b>

- The five cities with the highest rates of total crashes per population were Marriot-Slaterville, Willard, Uintah, Park City, and South Salt Lake. The five cities with the highest total number of crashes were Salt Lake City, West Valley City, Murray, Sandy, and West Jordan.
- Perry (+45), Layton (+18), and Nephi (+17) had the largest increase in rankings from 2015.
- Roosevelt (-46), Tremonton (-22), and Ephraim/South Ogden (-20) had the biggest decrease in rankings from 2015.



# Crash Conditions

## Light Condition (Utah 2016)

Crashes								
Light Condition	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Daylight	30,528	70.2%	13,557	72.3%	155	59.8%	<b>44,240</b>	<b>70.8%</b>
Dark	11,084	25.5%	4,532	24.2%	89	34.4%	<b>15,705</b>	<b>25.1%</b>
Dawn/Dusk	1,447	3.3%	606	3.2%	13	5.0%	<b>2,066</b>	<b>3.3%</b>
Unknown	406	0.9%	52	0.3%	2	0.8%	<b>460</b>	<b>0.7%</b>
<b>Total</b>	<b>43,465</b>	<b>100.0%</b>	<b>18,747</b>	<b>100.0%</b>	<b>259</b>	<b>100.0%</b>	<b>62,471</b>	<b>100.0%</b>

- Nearly three-fourths (71%) of crashes occurred during daylight.
- Nearly one-half (39%) of fatal crashes occurred during dark conditions. Crashes occurring at dark were 1.5 times more likely to be fatal.

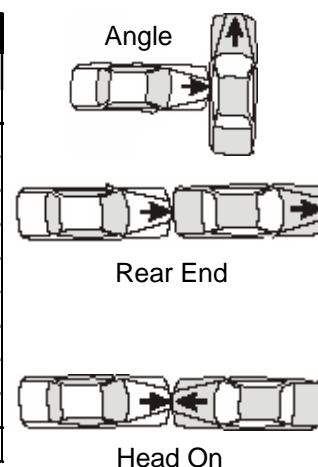
## Number of Vehicles Involved (Utah 2016)

Crashes								
Vehicles Involved	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
1	10,736	24.7%	4,987	26.6%	142	54.8%	<b>15,865</b>	<b>25.4%</b>
2	29,724	68.4%	10,950	58.4%	90	34.7%	<b>40,764</b>	<b>65.3%</b>
3	2,523	5.8%	2,200	11.7%	21	8.1%	<b>4,744</b>	<b>7.6%</b>
4 or more	482	1.1%	610	3.3%	6	2.3%	<b>1,098</b>	<b>1.8%</b>
<b>Total</b>	<b>43,465</b>	<b>100.0%</b>	<b>18,747</b>	<b>100.0%</b>	<b>259</b>	<b>100.0%</b>	<b>62,471</b>	<b>100.0%</b>

- While three-fourths (75%) of all crashes involved two or more motor vehicles, 55% of fatal crashes involved only one motor vehicle.

## Collision Description (Utah 2016)

Crashes								
Collision Description	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Rear End (front-to-rear)	13,690	31.5%	6,215	33.2%	15	5.8%	<b>19,920</b>	<b>31.9%</b>
Single Vehicle	11,506	26.5%	5,274	28.1%	152	58.7%	<b>16,932</b>	<b>27.1%</b>
Angle	8,940	20.6%	4,936	26.3%	56	21.6%	<b>13,932</b>	<b>22.3%</b>
Sideswipe	5,474	12.6%	972	5.2%	15	5.8%	<b>6,461</b>	<b>10.3%</b>
Parked Vehicle	2,035	4.7%	358	1.9%	4	1.5%	<b>2,397</b>	<b>3.8%</b>
Head On (front-to-front)	695	1.6%	700	3.7%	16	6.2%	<b>1,411</b>	<b>2.3%</b>
Rear to Side/Rear	327	0.8%	22	0.1%	1	0.4%	<b>350</b>	<b>0.6%</b>
Other	337	0.8%	165	0.9%	0	0.0%	<b>502</b>	<b>0.8%</b>
Unknown	461	1.1%	105	0.6%	0	0.0%	<b>566</b>	<b>0.9%</b>
<b>Total</b>	<b>43,465</b>	<b>100.0%</b>	<b>18,747</b>	<b>100.0%</b>	<b>259</b>	<b>100.0%</b>	<b>62,471</b>	<b>100.0%</b>



- For all crashes, the leading collision types were rear end, single vehicle, and angle.
- The leading collision types in fatal crashes were single vehicle and angle.
- Head on collisions were 2.8 times more likely to result in a death than other collision types.



## Crash Conditions

### Vehicle Maneuver Prior to Crash (Utah 2016)

Vehicle Maneuver	Vehicles							
	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Straight Ahead	42,511	53.3%	20,575	57.0%	301	73.2%	63,387	54.5%
Stopped in Traffic Lane	9,146	11.5%	5,429	15.0%	14	3.4%	14,589	12.5%
Turning Left	6,566	8.2%	3,828	10.6%	48	11.7%	10,442	9.0%
Slowing in Traffic Lane	4,770	6.0%	2,256	6.2%	7	1.7%	7,033	6.0%
Parked	3,725	4.7%	777	2.2%	9	2.2%	4,511	3.9%
Turning Right	2,936	3.7%	1,025	2.8%	2	0.5%	3,963	3.4%
Changing Lanes	2,745	3.4%	622	1.7%	2	0.5%	3,369	2.9%
Backing	2,293	2.9%	183	0.5%	4	1.0%	2,480	2.1%
Entering Traffic Lane	891	1.1%	271	0.8%	0	0.0%	1,162	1.0%
Making U-turn	741	0.9%	268	0.7%	2	0.5%	1,011	0.9%
Overtaking/Passing	477	0.6%	125	0.3%	12	2.9%	614	0.5%
Leaving Traffic Lane	419	0.5%	189	0.5%	0	0.0%	608	0.5%
Parking Maneuvers	522	0.7%	47	0.1%	0	0.0%	569	0.5%
Other	625	0.8%	262	0.7%	4	1.0%	891	0.8%
Unknown	1,448	1.8%	269	0.7%	6	1.5%	1,723	1.5%
<b>Total</b>	<b>79,815</b>	<b>100.0%</b>	<b>36,126</b>	<b>100.0%</b>	<b>411</b>	<b>100.0%</b>	<b>116,352</b>	<b>100.0%</b>

- For total crashes, straight ahead (55%), stopped in traffic lane (13%), and turning left (9%) were the leading vehicle maneuvers prior to the crash.
- For fatal crashes, straight ahead (73%) and turning left (12%) were the leading vehicle maneuvers.
- Overtaking/passing was one of the deadliest maneuvers to make as crashes were 5.7 times more likely to be fatal compared to other vehicle maneuvers.

### Roadway Junction or Feature (Utah 2016)

Roadway Junction or Feature	Crashes							
	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
None	24,692	56.8%	9,030	48.2%	160	61.8%	33,882	54.2%
4-Leg Intersection	8,616	19.8%	5,517	29.4%	52	20.1%	14,185	22.7%
T-Intersection	3,730	8.6%	1,797	9.6%	20	7.7%	5,547	8.9%
Business/Residential Drive	2,141	4.9%	763	4.1%	6	2.3%	2,910	4.7%
On-Ramp/Off-Ramp	1,166	2.7%	401	2.1%	5	1.9%	1,572	2.5%
Bridge (overpass/underpass)	642	1.5%	273	1.5%	4	1.5%	919	1.5%
On-Ramp Merge/Off-Ramp Diverge Area	644	1.5%	230	1.2%	0	0.0%	874	1.4%
Other Intersection (Y, 5-Leg, Ramp w/X-rd)	438	1.0%	220	1.2%	1	0.4%	659	1.1%
Roundabout	261	0.6%	60	0.3%	1	0.4%	322	0.5%
Railroad Crossing	92	0.2%	47	0.3%	1	0.4%	140	0.2%
Other	967	2.2%	388	2.1%	5	1.9%	1,360	2.2%
Unknown	76	0.2%	21	0.1%	4	1.5%	101	0.2%
<b>Total</b>	<b>43,465</b>	<b>100.0%</b>	<b>18,747</b>	<b>100.0%</b>	<b>259</b>	<b>100.0%</b>	<b>62,471</b>	<b>100.0%</b>

- While the majority (54%) of all crashes occurred on a roadway with no junction or feature, 33% of crashes occurred at an intersection.

# Crash Conditions

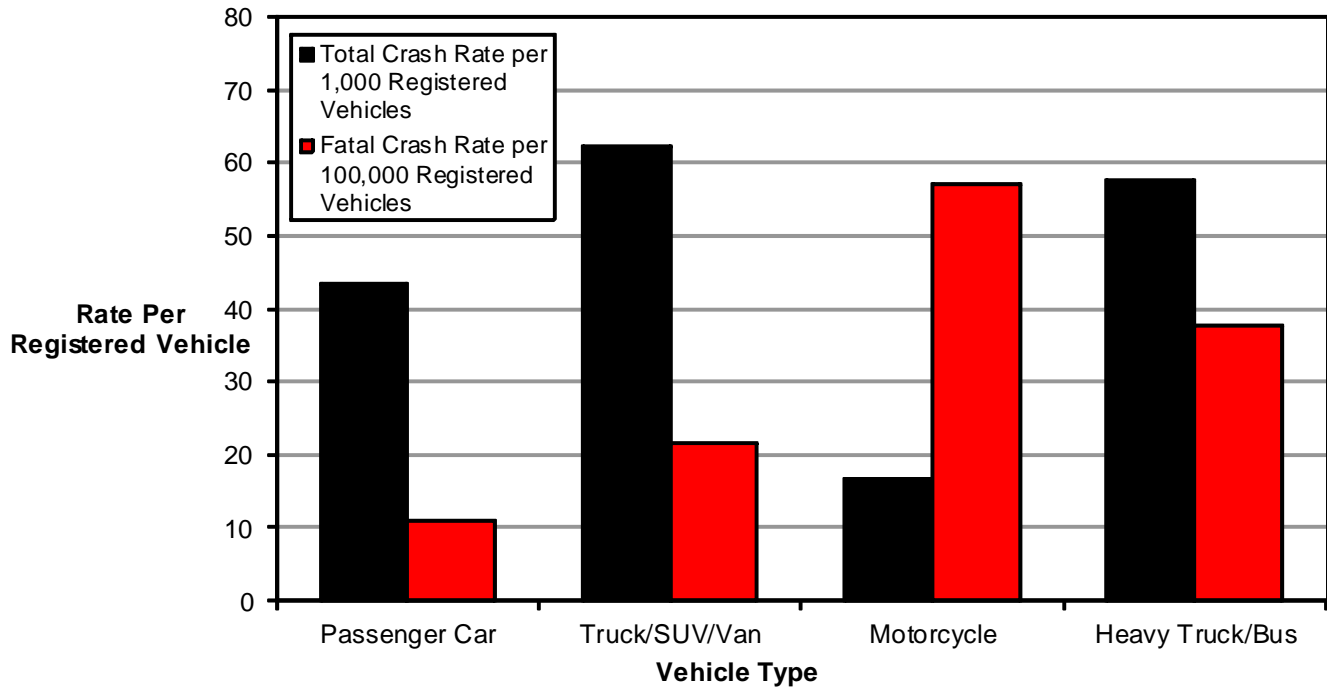
## Vehicle Type (Utah 2016)



Vehicle Type	Vehicles							
	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Passenger Car	40,778	51.1%	18,918	52.4%	151	36.7%	<b>59,847</b>	<b>51.4%</b>
SUV	17,169	21.5%	7,925	21.9%	78	19.0%	<b>25,172</b>	<b>21.6%</b>
Pickup Truck	12,891	16.2%	5,016	13.9%	81	19.7%	<b>17,988</b>	<b>15.5%</b>
Van	4,128	5.2%	2,080	5.8%	13	3.2%	<b>6,221</b>	<b>5.3%</b>
Heavy Truck	2,917	3.7%	767	2.1%	26	6.3%	<b>3,710</b>	<b>3.2%</b>
Motorcycle	175	0.2%	972	2.7%	41	10.0%	<b>1,188</b>	<b>1.0%</b>
Bus	344	0.4%	73	0.2%	1	0.2%	<b>418</b>	<b>0.4%</b>
Off Road Vehicle	35	0.0%	146	0.4%	9	2.2%	<b>190</b>	<b>0.2%</b>
RV/Motor Home	94	0.1%	24	0.1%	1	0.2%	<b>119</b>	<b>0.1%</b>
Other	43	0.1%	13	0.0%	2	0.5%	<b>58</b>	<b>0.0%</b>
Unknown	1,241	1.6%	192	0.5%	8	1.9%	<b>1,441</b>	<b>1.2%</b>
<b>Total</b>	<b>79,815</b>	<b>100.0%</b>	<b>36,126</b>	<b>100.0%</b>	<b>411</b>	<b>100.0%</b>	<b>116,352</b>	<b>100.0%</b>



## Crash Rates by Vehicle Type (Utah 2016)

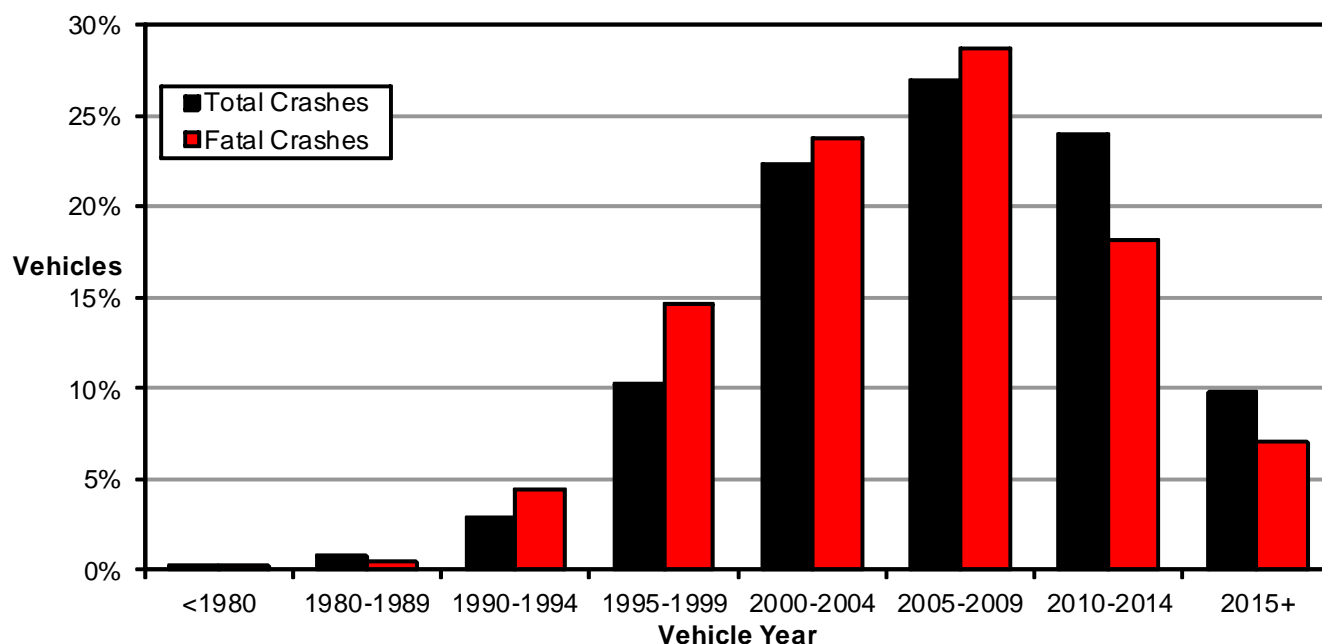


- When comparing vehicle types it is important to keep in mind that different vehicle types may have different usage patterns and thus different exposure. For example, heavy truck may travel more miles per vehicle.
- Passenger car represented 60% of registered vehicles in Utah, pickup truck/SUV/van 34%, motorcycle 3%, and heavy truck/bus 3%.
- For total crashes, passenger car (51%) and SUV (22%) were the leading vehicle types.
- Pickup truck/SUV/van had the highest total crash rates per registered vehicle.
- For fatal crashes, passenger car (37%) and pickup truck (20%) were the leading vehicle types.
- Motorcycle and heavy truck/bus had the highest fatal crash rates per registered vehicle.
- While motorcycles represented 1.0% of vehicles in total crashes, they represented 10% of vehicles in fatalities. Crashes involving a motorcycle were 11 times more likely to be fatal than crashes of other vehicles.

## Crash Conditions

### Vehicle Year (Utah 2016)

Vehicle Year	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
<1970	64	0.1%	26	0.1%	0	0.0%	90	0.1%
1970-1979	144	0.2%	71	0.2%	1	0.2%	216	0.2%
1980-1989	603	0.8%	305	0.8%	2	0.5%	910	0.8%
1990-1994	2,225	2.8%	1,078	3.0%	18	4.4%	3,321	2.9%
1995-1999	7,890	9.9%	3,880	10.7%	60	14.6%	11,830	10.2%
2000-2004	17,510	21.9%	8,330	23.1%	98	23.8%	25,938	22.3%
2005	4,650	5.8%	2,195	6.1%	30	7.3%	6,875	5.9%
2006	4,928	6.2%	2,220	6.1%	22	5.4%	7,170	6.2%
2007	4,818	6.0%	2,301	6.4%	27	6.6%	7,146	6.1%
2008	4,197	5.3%	1,974	5.5%	30	7.3%	6,201	5.3%
2009	2,804	3.5%	1,233	3.4%	9	2.2%	4,046	3.5%
2010	3,111	3.9%	1,389	3.8%	9	2.2%	4,509	3.9%
2011	3,295	4.1%	1,467	4.1%	12	2.9%	4,774	4.1%
2012	4,083	5.1%	1,790	5.0%	19	4.6%	5,892	5.1%
2013	4,549	5.7%	2,099	5.8%	12	2.9%	6,660	5.7%
2014	4,227	5.3%	1,833	5.1%	23	5.6%	6,083	5.2%
2015	4,516	5.7%	1,855	5.1%	16	3.9%	6,387	5.5%
2016 or newer	3,501	4.4%	1,449	4.0%	13	3.2%	4,963	4.3%
Unknown	2,700	3.4%	631	1.7%	10	2.4%	3,341	2.9%
<b>Total</b>	<b>79,815</b>	<b>100.0%</b>	<b>36,126</b>	<b>100.0%</b>	<b>411</b>	<b>100.0%</b>	<b>116,352</b>	<b>100.0%</b>



- Over one-half (51%) of vehicles in fatal crashes were vehicle years 2005-2014. The vehicle years 2006 and 2007 had the highest number of vehicles in fatal crashes.
- Over one-half (53%) of vehicles in crashes were vehicle years 2000-2009. The vehicle years 2005 and 2008 had the highest number of vehicles in total crashes.
- Vehicle model years 2008 and older were in slightly more fatal crashes than newer vehicles.

## Crash Conditions

### Vehicle Make (Utah 2016)

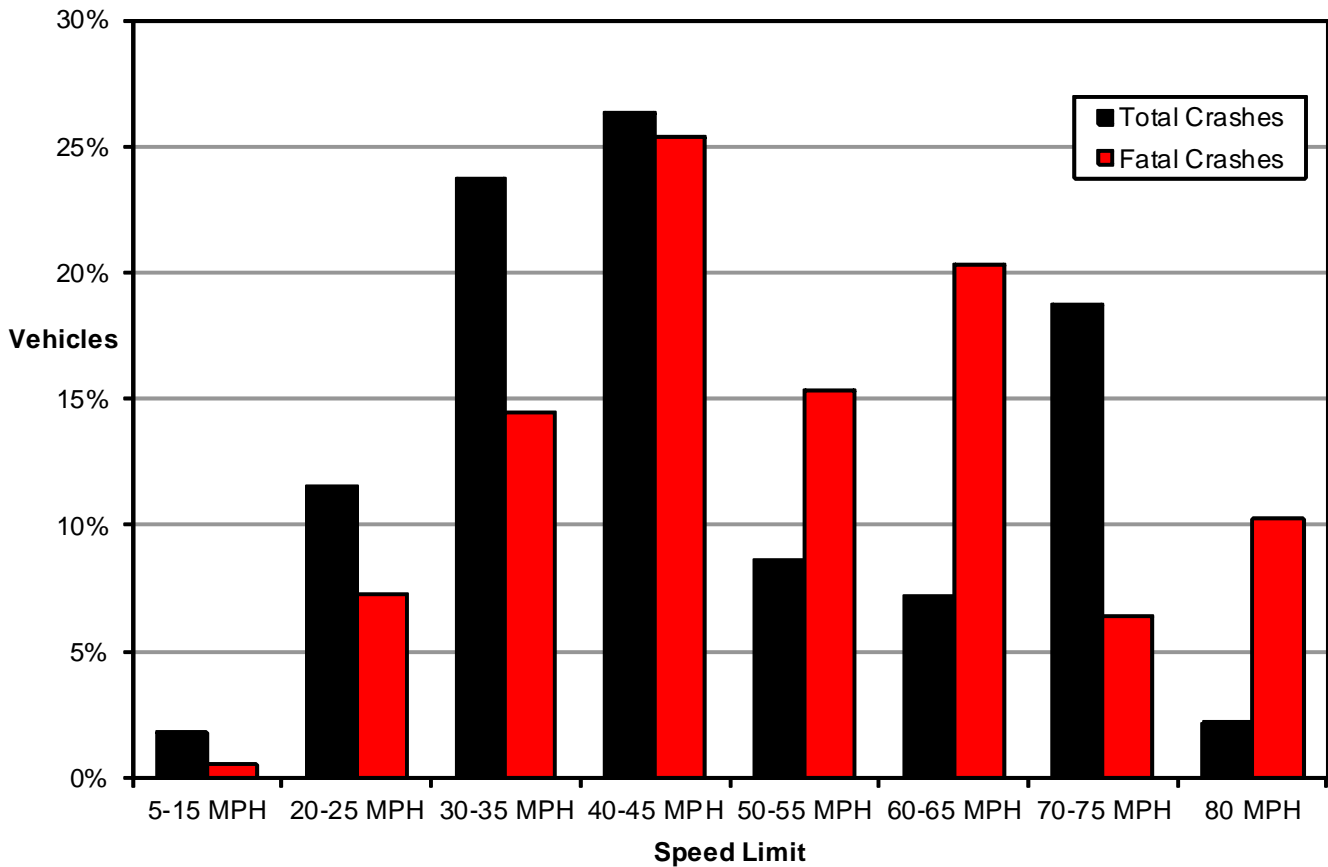
Vehicle Make	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Ford	10,193	12.8%	4,502	12.5%	57	13.9%	<b>14,752</b>	<b>12.7%</b>
Toyota	9,437	11.8%	4,256	11.8%	38	9.2%	<b>13,731</b>	<b>11.8%</b>
Chevrolet	9,059	11.3%	4,036	11.2%	44	10.7%	<b>13,139</b>	<b>11.3%</b>
Honda	6,782	8.5%	3,444	9.5%	28	6.8%	<b>10,254</b>	<b>8.8%</b>
Dodge	5,736	7.2%	2,441	6.8%	32	7.8%	<b>8,209</b>	<b>7.1%</b>
Nissan	5,136	6.4%	2,469	6.8%	0	0.0%	<b>7,605</b>	<b>6.5%</b>
Hyundai	3,256	4.1%	1,525	4.2%	14	3.4%	<b>4,795</b>	<b>4.1%</b>
Subaru	2,775	3.5%	1,165	3.2%	6	1.5%	<b>3,946</b>	<b>3.4%</b>
Jeep	2,395	3.0%	1,035	2.9%	12	2.9%	<b>3,442</b>	<b>3.0%</b>
Mazda	2,256	2.8%	1,056	2.9%	5	1.2%	<b>3,317</b>	<b>2.9%</b>
GMC	2,115	2.6%	864	2.4%	19	4.6%	<b>2,998</b>	<b>2.6%</b>
Volkswagen	1,895	2.4%	862	2.4%	7	1.7%	<b>2,764</b>	<b>2.4%</b>
Chrysler	1,457	1.8%	734	2.0%	7	1.7%	<b>2,198</b>	<b>1.9%</b>
Kia	1,448	1.8%	671	1.9%	5	1.2%	<b>2,124</b>	<b>1.8%</b>
Pontiac	1,091	1.4%	546	1.5%	9	2.2%	<b>1,646</b>	<b>1.4%</b>
Acura	878	1.1%	414	1.1%	4	1.0%	<b>1,296</b>	<b>1.1%</b>
Buick	846	1.1%	432	1.2%	5	1.2%	<b>1,283</b>	<b>1.1%</b>
Mitsubishi	902	1.1%	378	1.0%	3	0.7%	<b>1,283</b>	<b>1.1%</b>
Lexus	909	1.1%	369	1.0%	2	0.5%	<b>1,280</b>	<b>1.1%</b>
Saturn	741	0.9%	375	1.0%	5	1.2%	<b>1,121</b>	<b>1.0%</b>
BMW	674	0.8%	318	0.9%	0	0.0%	<b>992</b>	<b>0.9%</b>
Freightliner	664	0.8%	190	0.5%	7	1.7%	<b>861</b>	<b>0.7%</b>
Audi	542	0.7%	236	0.7%	3	0.7%	<b>781</b>	<b>0.7%</b>
Cadillac	533	0.7%	235	0.7%	4	1.0%	<b>772</b>	<b>0.7%</b>
Mercedes-Benz	522	0.7%	208	0.6%	2	0.5%	<b>732</b>	<b>0.6%</b>
Infiniti	441	0.6%	193	0.5%	4	1.0%	<b>638</b>	<b>0.5%</b>
Suzuki	346	0.4%	278	0.8%	6	1.5%	<b>630</b>	<b>0.5%</b>
Volvo	425	0.5%	146	0.4%	2	0.5%	<b>573</b>	<b>0.5%</b>
Mercury	371	0.5%	196	0.5%	3	0.7%	<b>570</b>	<b>0.5%</b>
Peterbilt	423	0.5%	110	0.3%	9	2.2%	<b>542</b>	<b>0.5%</b>
Kenworth	418	0.5%	101	0.3%	3	0.7%	<b>522</b>	<b>0.4%</b>
Oldsmobile	300	0.4%	178	0.5%	1	0.2%	<b>479</b>	<b>0.4%</b>
Other	2,476	3.1%	1,642	4.5%	56	13.6%	<b>4,174</b>	<b>3.6%</b>
Unknown	2,373	3.0%	521	1.4%	9	2.2%	<b>2,903</b>	<b>2.5%</b>
<b>Total</b>	<b>79,815</b>	<b>100.0%</b>	<b>36,126</b>	<b>100.0%</b>	<b>411</b>	<b>100.0%</b>	<b>116,352</b>	<b>100.0%</b>

- Over one-third (36%) of vehicles in crashes had the vehicle make of Ford, Toyota, or Chevrolet.
- The top 10 vehicle makes (Ford, Toyota, Chevrolet, Honda, Dodge, Nissan, Hyundai, Subaru, Jeep, and Mazda) made up nearly three-fourths (72%) of the vehicle makes in crashes.
- GMC (+2.0%), Peterbilt (+1.7%), Ford (+1.2%), and Freightliner (+1.0%) had the biggest positive difference in percent of vehicle make in fatal crashes compared to all crashes.
- Nissan (-6.5%), Toyota (-2.6%), Honda (-2.0%), Subaru (-1.9%), and Mazda (-1.6%) had the biggest negative difference in percent of vehicle make in fatal crashes compared to all crashes.

# Crash Conditions

## Speed Limit (Utah 2016)

Speed Limit	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
5-15 MPH	1,380	1.7%	252	0.7%	2	0.5%	1,634	1.4%
20-25 MPH	7,662	9.6%	2,931	8.1%	26	6.3%	10,619	9.1%
30-35 MPH	14,361	18.0%	7,469	20.7%	52	12.7%	21,882	18.8%
40-45 MPH	15,618	19.6%	8,627	23.9%	91	22.1%	24,336	20.9%
50-55 MPH	5,070	6.4%	2,813	7.8%	55	13.4%	7,938	6.8%
60-65 MPH	4,725	5.9%	1,821	5.0%	73	17.8%	6,619	5.7%
70-75 MPH	12,286	15.4%	4,982	13.8%	23	5.6%	17,291	14.9%
80 MPH	1,449	1.8%	549	1.5%	37	9.0%	2,035	1.7%
Unknown/None	17,264	21.6%	6,682	18.5%	52	12.7%	23,998	20.6%
<b>Total</b>	<b>79,815</b>	<b>100.0%</b>	<b>36,126</b>	<b>100.0%</b>	<b>411</b>	<b>100.0%</b>	<b>116,352</b>	<b>100.0%</b>

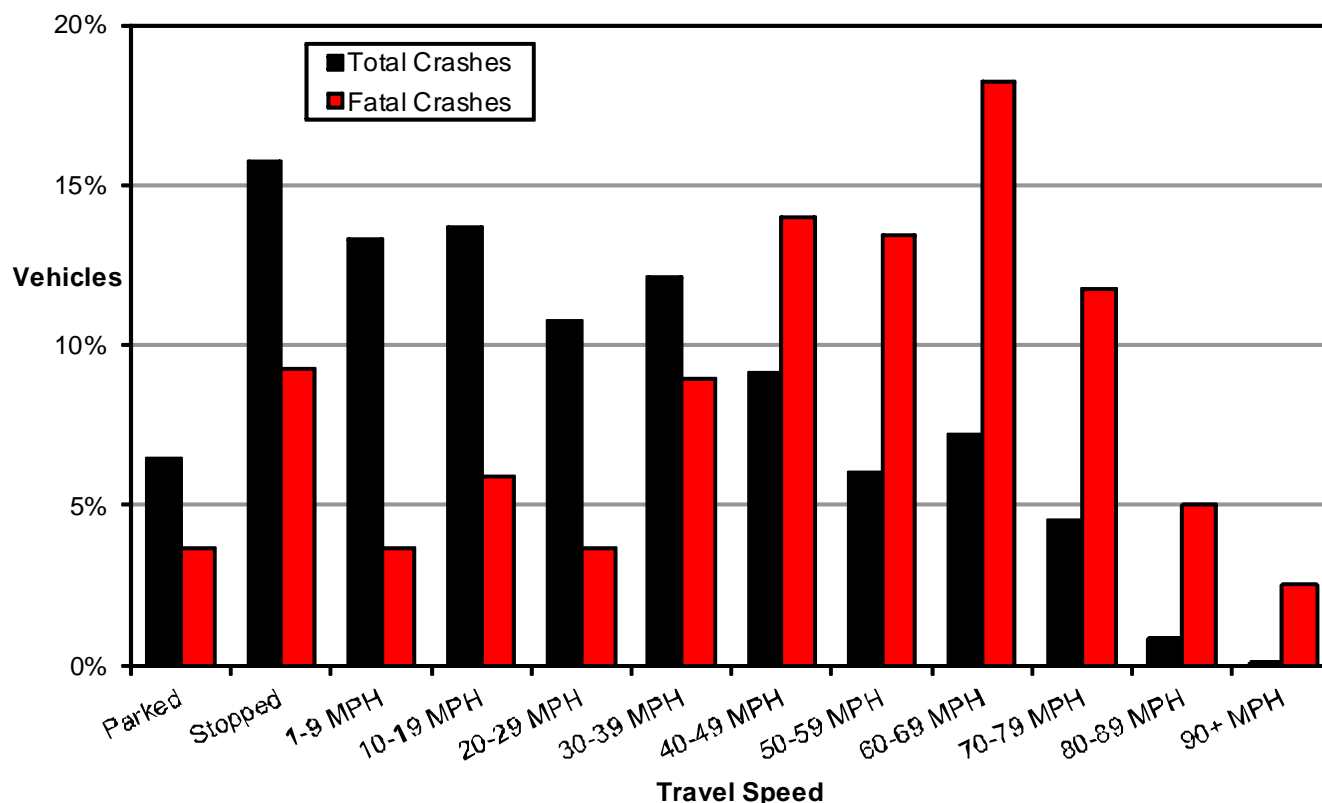


- The speed limit was 30-45 MPH for one-half (50% of known) of the total vehicles in crashes.
- Fatal crashes were more likely to occur with higher speed limits. The speed limit was 50 MPH or higher for over one-half (52% of known) of the vehicles in fatal crashes.
- Crashes where the speed limit was 80 MPH were overrepresented in fatal crashes. 80 MPH represented 2% (of known) of vehicles in total crashes and 10% (of known) of vehicles in fatal crashes.
- Crashes where the speed limit was 80 MPH were 5.2 times more likely to be fatal.
- Studies show that a 5% increase in average speed leads to a 10% increase in injury crashes and a 20% increase in fatal crashes. A 5% decrease in speed leads to a 10% decrease in injury crashes and a 20% decrease in fatal crashes.

## Crash Conditions

### Travel Speed (Utah 2016)

Travel Speed	Vehicles							
	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Parked	3,725	4.7%	777	2.2%	9	2.2%	<b>4,511</b>	<b>3.9%</b>
Stopped	9,256	11.6%	5,461	15.1%	14	3.4%	<b>14,731</b>	<b>12.7%</b>
1-9 MPH	8,297	10.4%	2,876	8.0%	17	4.1%	<b>11,190</b>	<b>9.6%</b>
10-19 MPH	9,127	11.4%	3,682	10.2%	26	6.3%	<b>12,835</b>	<b>11.0%</b>
20-29 MPH	7,140	8.9%	3,074	8.5%	21	5.1%	<b>10,235</b>	<b>8.8%</b>
30-39 MPH	7,324	9.2%	3,966	11.0%	29	7.1%	<b>11,319</b>	<b>9.7%</b>
40-49 MPH	5,229	6.6%	3,153	8.7%	49	11.9%	<b>8,431</b>	<b>7.2%</b>
50-59 MPH	3,858	4.8%	1,776	4.9%	45	10.9%	<b>5,679</b>	<b>4.9%</b>
60-69 MPH	5,167	6.5%	1,885	5.2%	63	15.3%	<b>7,115</b>	<b>6.1%</b>
70-79 MPH	3,321	4.2%	1,338	3.7%	29	7.1%	<b>4,688</b>	<b>4.0%</b>
80-89 MPH	574	0.7%	321	0.9%	19	4.6%	<b>914</b>	<b>0.8%</b>
90+ MPH	37	0.0%	60	0.2%	11	2.7%	<b>108</b>	<b>0.1%</b>
Unknown	16,760	21.0%	7,757	21.5%	79	19.2%	<b>24,596</b>	<b>21.1%</b>
<b>Total</b>	<b>79,815</b>	<b>100.0%</b>	<b>36,126</b>	<b>100.0%</b>	<b>411</b>	<b>100.0%</b>	<b>116,352</b>	<b>100.0%</b>



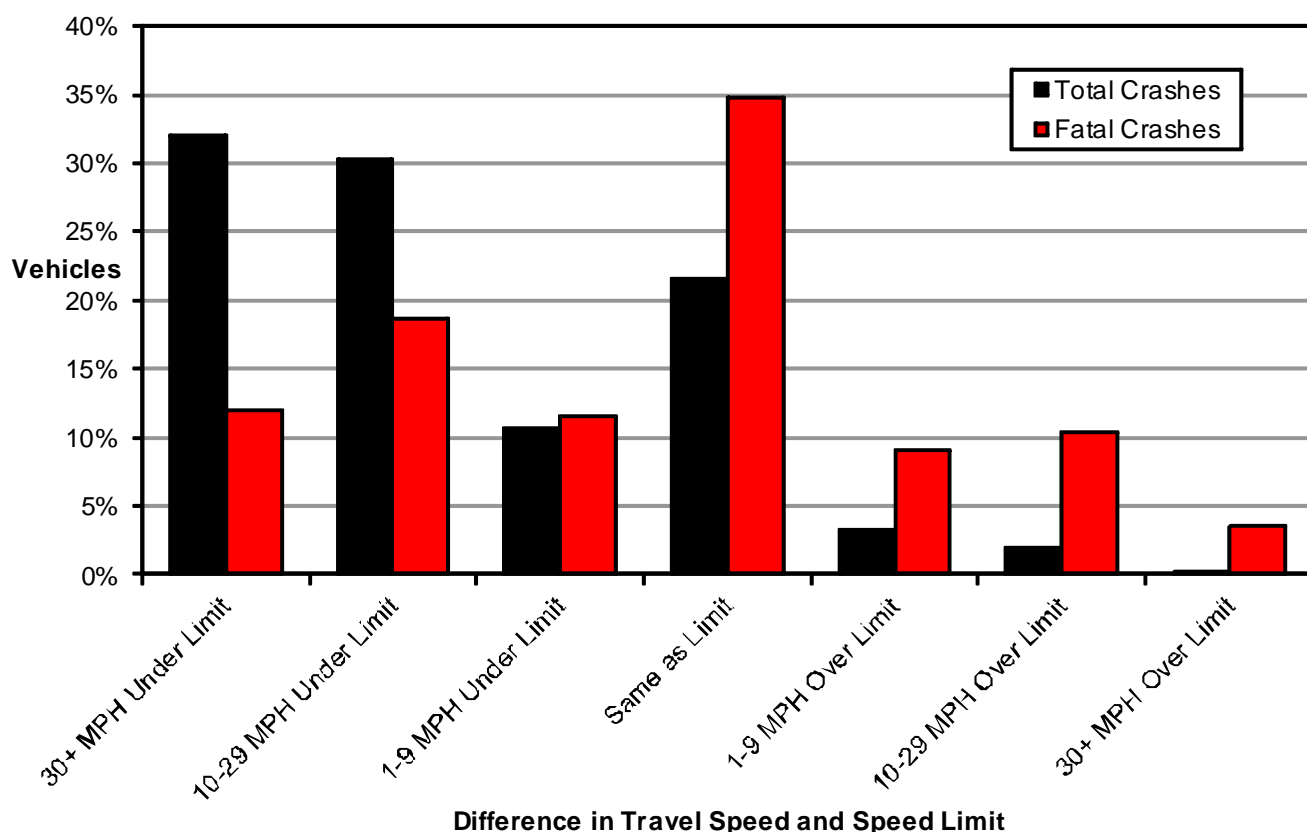
- One-half (50% of known) of vehicles in total crashes were traveling 1-39 MPH.
- Vehicles in fatal crashes were more likely to be traveling at higher speeds. 50% (of known) of vehicles in fatal crashes were traveling 50 MPH or higher.
- Vehicles traveling 50 MPH or higher were 4.0 times more likely to be in a fatal crash. Vehicles traveling 80 MPH or higher were 9.1 times more likely to be in a fatal crash. The higher the speed the greater the amount of energy that must be absorbed in a crash, hence there is more likelihood of serious injury and death.
- Drivers become increased risks to themselves and other people on the highway due to higher speeds.



# Crash Conditions

## Difference in Travel Speed and Speed Limit (Utah 2016)

Travel Speed vs. Speed Limit	Vehicles							
	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
40+ MPH Under Speed Limit	9,569	12.0%	4,955	13.7%	23	5.6%	<b>14,547</b>	<b>12.5%</b>
30-39 MPH Under Speed Limit	7,998	10.0%	3,834	10.6%	14	3.4%	<b>11,846</b>	<b>10.2%</b>
20-29 MPH Under Speed Limit	8,748	11.0%	3,465	9.6%	27	6.6%	<b>12,240</b>	<b>10.5%</b>
10-19 MPH Under Speed Limit	9,084	11.4%	3,662	10.1%	31	7.5%	<b>12,777</b>	<b>11.0%</b>
1-9 MPH Under Speed Limit	6,284	7.9%	2,497	6.9%	36	8.8%	<b>8,817</b>	<b>7.6%</b>
Same as Limit	11,708	14.7%	6,035	16.7%	108	26.3%	<b>17,851</b>	<b>15.3%</b>
1-9 MPH Over Speed Limit	1,710	2.1%	1,000	2.8%	28	6.8%	<b>2,738</b>	<b>2.4%</b>
10-19 MPH Over Speed Limit	688	0.9%	529	1.5%	18	4.4%	<b>1,235</b>	<b>1.1%</b>
20-29 MPH Over Speed Limit	165	0.2%	159	0.4%	14	3.4%	<b>338</b>	<b>0.3%</b>
30-39 MPH Over Speed Limit	35	0.0%	49	0.1%	6	1.5%	<b>90</b>	<b>0.1%</b>
40+ MPH Over Speed Limit	24	0.0%	50	0.1%	5	1.2%	<b>79</b>	<b>0.1%</b>
Unknown	23,802	29.8%	9,891	27.4%	101	24.6%	<b>33,794</b>	<b>29.0%</b>
<b>Total</b>	<b>79,815</b>	<b>100.0%</b>	<b>36,126</b>	<b>100.0%</b>	<b>411</b>	<b>100.0%</b>	<b>116,352</b>	<b>100.0%</b>



- For total crashes, 73% (of known) of vehicles were traveling under the speed limit, 22% (of known) were traveling the same as the speed limit, and 5% (of known) were traveling over the speed limit.
- For fatal crashes, 42% (of known) of vehicles were traveling under the speed limit, 35% (of known) were traveling the same as the speed limit, and 23% (of known) were traveling over the speed limit.
- Vehicles in fatal crashes were more likely to be exceeding the posted speed limit by greater amounts.
- Vehicles in crashes traveling over the posted speed limit were 5.2 times more likely to be in a fatal crash than vehicles traveling the speed limit or lower.

## Crash Conditions

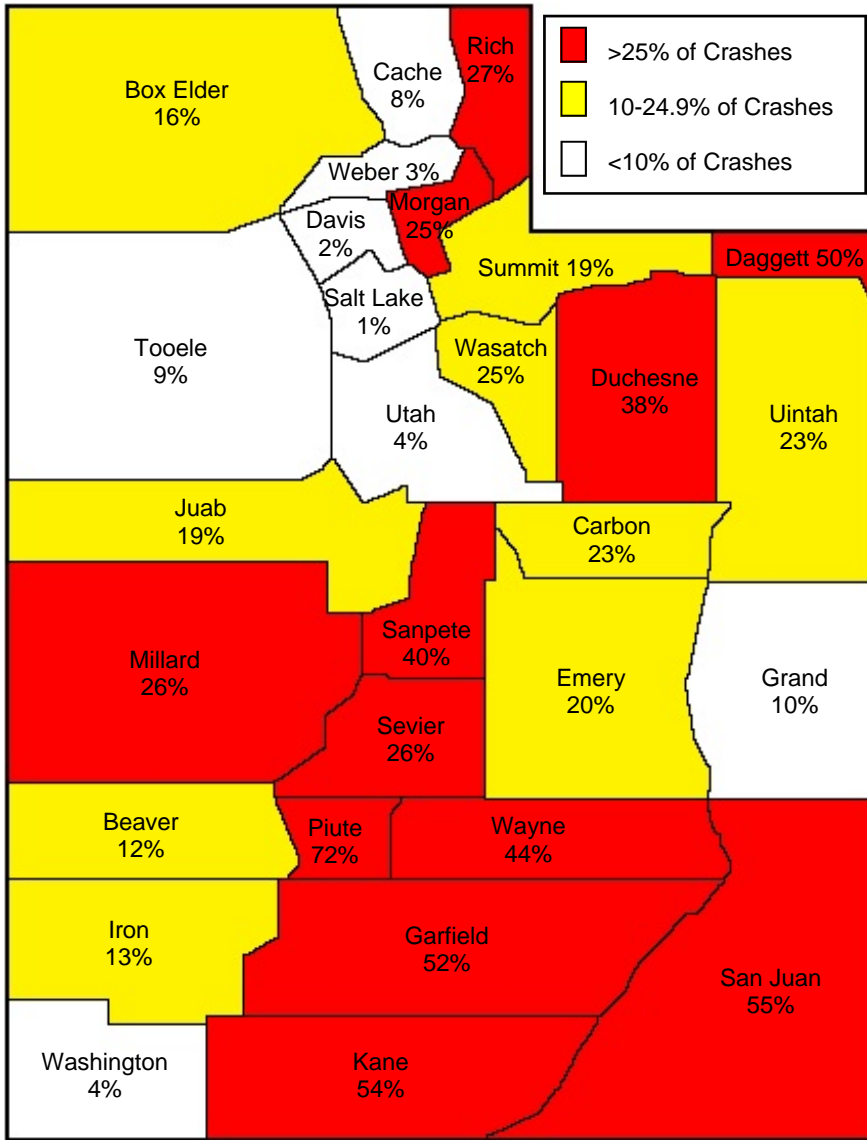
### First Harmful Event (Utah 2016)

Crashes								
First Harmful Event	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Collision with Other Motor Vehicle	29,686	68.3%	13,016	69.4%	103	39.8%	42,805	68.5%
Collision with Animal	2,924	6.7%	239	1.3%	1	0.4%	3,164	5.1%
Collision with Parked Vehicle	2,035	4.7%	358	1.9%	4	1.5%	2,397	3.8%
Collision with Concrete Barrier	1,618	3.7%	618	3.3%	3	1.2%	2,239	3.6%
Collision with Post, Pole, or Support	1,366	3.1%	450	2.4%	11	4.2%	1,827	2.9%
Overturn/Rollover	558	1.3%	853	4.6%	46	17.8%	1,457	2.3%
Collision with Other Fixed Object	753	1.7%	210	1.1%	4	1.5%	967	1.5%
Collision with Pedestrian	10	0.0%	777	4.1%	38	14.7%	825	1.3%
Collision with Fence	636	1.5%	173	0.9%	8	3.1%	817	1.3%
Collision with Other Non-Fixed Object	555	1.3%	109	0.6%	2	0.8%	666	1.1%
Other Non-Collision	412	0.9%	226	1.2%	0	0.0%	638	1.0%
Collision with Bicyclist	27	0.1%	602	3.2%	5	1.9%	634	1.0%
Collision with Tree/Shrubbery	350	0.8%	205	1.1%	5	1.9%	560	0.9%
Collision with Embankment	330	0.8%	190	1.0%	12	4.6%	532	0.9%
Collision with Guardrail	285	0.7%	119	0.6%	4	1.5%	408	0.7%
Collision with Cable Barrier	338	0.8%	60	0.3%	1	0.4%	399	0.6%
Collision with Ditch	232	0.5%	128	0.7%	1	0.4%	361	0.6%
Collision with Vehicle Cargo/Part/Object set in Motion	246	0.6%	56	0.3%	1	0.4%	303	0.5%
Collision with Mailbox/Fire Hydrant	231	0.5%	59	0.3%	0	0.0%	290	0.5%
Collision with Thrown or Fallen Object	197	0.5%	23	0.1%	0	0.0%	220	0.4%
Cargo/Equipment Loss or Shift	184	0.4%	26	0.1%	0	0.0%	210	0.3%
Fire/Explosion	178	0.4%	6	0.0%	0	0.0%	184	0.3%
Fell/Jumped from Vehicle	10	0.0%	117	0.6%	3	1.2%	130	0.2%
Collision with Crash Cushion	59	0.1%	36	0.2%	1	0.4%	96	0.2%
Collision with Curb	69	0.2%	25	0.1%	2	0.8%	96	0.2%
Jackknife	63	0.1%	10	0.1%	1	0.4%	74	0.1%
Collision with Culvert	34	0.1%	17	0.1%	0	0.0%	51	0.1%
Collision with Bridge	26	0.1%	13	0.1%	2	0.8%	41	0.1%
Collision with Work Zone/Maintenance Equipment	25	0.1%	14	0.1%	0	0.0%	39	0.1%
Collision with Train	21	0.0%	11	0.1%	1	0.4%	33	0.1%
Immersion	7	0.0%	1	0.0%	0	0.0%	8	0.0%
<b>Total</b>	<b>43,465</b>	<b>100.0%</b>	<b>18,747</b>	<b>100.0%</b>	<b>259</b>	<b>100.0%</b>	<b>62,471</b>	<b>100.0%</b>

- For all crashes, the leading first harmful event was collision with other motor vehicle (69%).
- For total crashes, collision with animal (5%) and collision with parked vehicle (4%) were the next highest first harmful events.
- For fatal crashes, overturn/rollover (18%) and collision with pedestrian (15%) were the next highest first harmful events.
- Overturn/rollover was 5.6 times more likely to result in a death than other first harmful events.

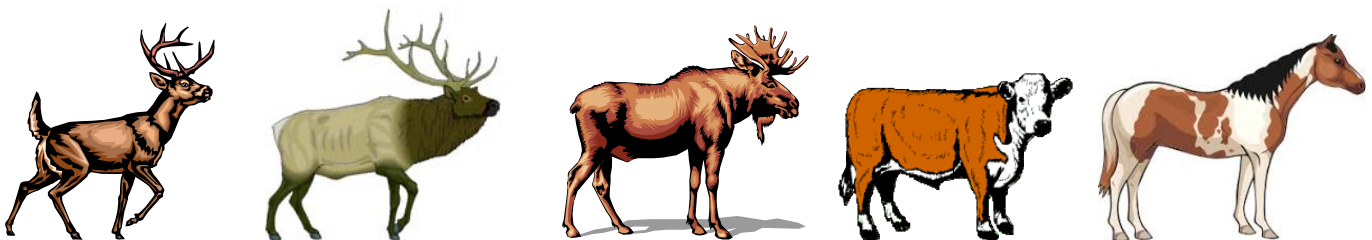
# Animal-Related Crashes

## Percent of Crashes Involving Animals by County (Utah 2016)



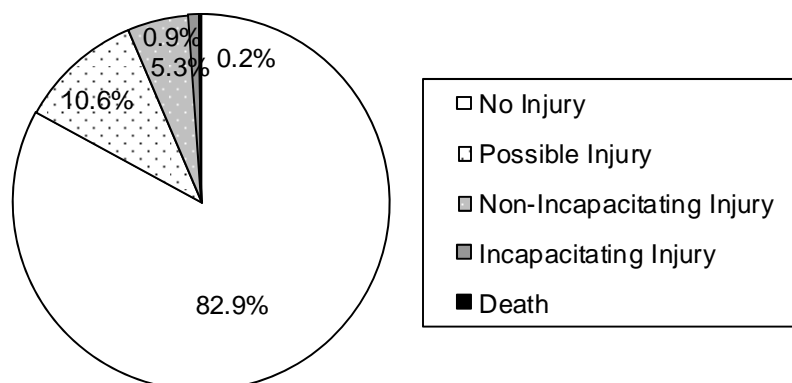
County	Total Crashes	Animal Crashes		
		Total #	Rate per 100 Million VMT	% With Animal
Piute	39	28	85.8	71.8%
San Juan	266	146	44.1	54.9%
Kane	208	113	68.0	54.3%
Garfield	230	119	91.4	51.7%
Daggett	14	7	20.2	50.0%
Wayne	64	28	51.2	43.8%
Sanpete	364	146	58.8	40.1%
Duchesne	302	116	35.4	38.4%
Rich	81	22	40.0	27.2%
Sevier	390	103	28.1	26.4%
Millard	434	113	20.0	26.0%
Morgan	166	42	28.2	25.3%
Wasatch	726	180	44.8	24.8%
Uintah	499	113	25.8	22.6%
Carbon	385	87	24.8	22.6%
Emery	256	51	13.1	19.9%
Juab	353	68	15.1	19.3%
Summit	1,193	223	26.0	18.7%
Box Elder	1,359	213	21.1	15.7%
Iron	951	124	14.9	13.0%
Beaver	251	29	9.6	11.6%
Grand	222	21	5.2	9.5%
Tooele	1,107	104	11.5	9.4%
Cache	2,064	174	17.5	8.4%
Washington	2,706	106	6.4	3.9%
Utah	9,365	346	7.3	3.7%
Weber	4,413	109	6.1	2.5%
Davis	5,776	123	4.2	2.1%
Salt Lake	28,287	289	2.9	1.0%
<b>Statewide</b>	<b>62,471</b>	<b>3,343</b>	<b>10.9</b>	<b>5.4%</b>

- There were 3,343 collisions involving animals, 2,835 (85%) involved hitting a wild animal, 364 (11%) involved hitting a domestic animal, and 144 (4%) involved an unharmed animal causing evasive action.
- Piute (72%), San Juan (55%), Kane (54%), Garfield (52%), and Daggett (50%) Counties had the highest percent of crashes involving an animal.
- Garfield (91.4), Piute (85.8), Kane (68.0), Sanpete (58.8), and Wayne (51.2) Counties had the highest rate per 100 million vehicle miles traveled of crashes involving an animal.
- Utah, Salt Lake, Summit, and Box Elder Counties had the highest amount of animal-related crashes.



## Crash Conditions

### Injury Severity (Utah 2016)



- Although many people were injured and killed in motor vehicle crashes, the majority (83%) of persons in crashes did not sustain a known injury at the crash scene. See Glossary in the Appendix for injury definitions.
- Persons in the same crash sustain different levels of injury. Many factors influence injury patterns including seat belt use, seating position, and vehicle safety equipment.

### Person Placement (Utah 2016)

Persons								
Person Placement	Non-Injured		Injured		Killed		Total	
	#	%	#	%	#	%	#	%
Driver	95,331	72.6%	18,124	67.8%	167	59.4%	<b>113,622</b>	<b>71.7%</b>
Passenger	35,961	27.4%	7,103	26.6%	70	24.9%	<b>43,134</b>	<b>27.2%</b>
Pedestrian	69	0.1%	898	3.4%	39	13.9%	<b>1,006</b>	<b>0.6%</b>
Bicyclist	37	0.0%	613	2.3%	5	1.8%	<b>655</b>	<b>0.4%</b>
<b>Total</b>	<b>131,398</b>	<b>100.0%</b>	<b>26,738</b>	<b>100.0%</b>	<b>281</b>	<b>100.0%</b>	<b>158,417</b>	<b>100.0%</b>

- While 99% of all people in total crashes were drivers or passengers, 16% of deaths were to pedestrians and bicyclists.

### Gender of Persons in Crashes (Utah 2016)

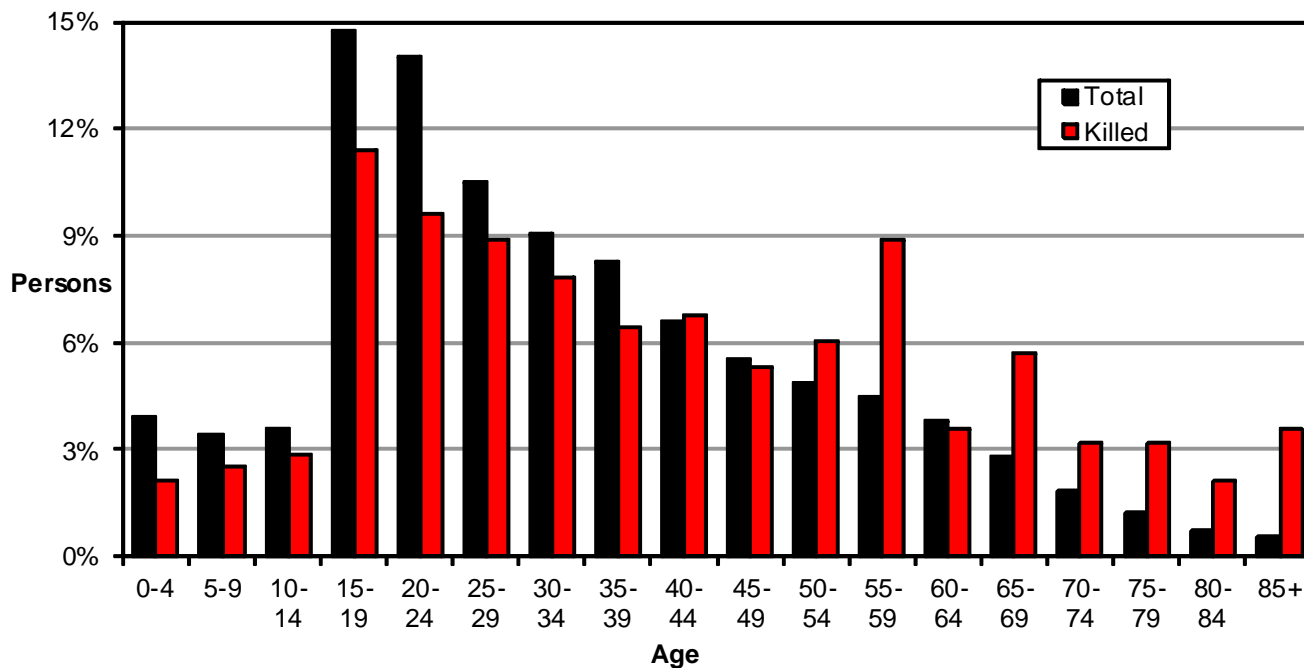
Persons								
Gender	Non-Injured		Injured		Killed		Total	
	#	%	#	%	#	%	#	%
Male	71,219	54.2%	12,311	46.0%	195	69.4%	<b>83,725</b>	<b>52.9%</b>
Female	55,978	42.6%	14,217	53.2%	86	30.6%	<b>70,281</b>	<b>44.4%</b>
Unknown	4,201	3.2%	210	0.8%	0	0.0%	<b>4,411</b>	<b>2.8%</b>
<b>Total</b>	<b>131,398</b>	<b>100.0%</b>	<b>26,738</b>	<b>100.0%</b>	<b>281</b>	<b>100.0%</b>	<b>158,417</b>	<b>100.0%</b>

- Males comprised over half of all persons in crashes and over two-thirds of deaths, while females sustained more injuries than males.
- Males were 1.9 times more likely to die than females in a crash.

## Crash Conditions

### Age of Persons in Crashes (Utah 2016)

Age	Persons							
	Non-Injured		Injured		Killed		Total	
	#	%	#	%	#	%	#	%
0-4	5,471	4.2%	491	1.8%	6	2.1%	5,968	3.8%
5-9	4,473	3.4%	728	2.7%	7	2.5%	5,208	3.3%
10-14	4,359	3.3%	1,026	3.8%	8	2.8%	5,393	3.4%
15-19	18,857	14.4%	3,500	13.1%	32	11.4%	22,389	14.1%
20-24	17,639	13.4%	3,574	13.4%	27	9.6%	21,240	13.4%
25-29	13,070	9.9%	2,830	10.6%	25	8.9%	15,925	10.1%
30-34	11,203	8.5%	2,497	9.3%	22	7.8%	13,722	8.7%
35-39	10,247	7.8%	2,231	8.3%	18	6.4%	12,496	7.9%
40-44	8,193	6.2%	1,796	6.7%	19	6.8%	10,008	6.3%
45-49	6,784	5.2%	1,567	5.9%	15	5.3%	8,366	5.3%
50-54	5,915	4.5%	1,439	5.4%	17	6.0%	7,371	4.7%
55-59	5,407	4.1%	1,380	5.2%	25	8.9%	6,812	4.3%
60-64	4,644	3.5%	1,072	4.0%	10	3.6%	5,726	3.6%
65-69	3,429	2.6%	824	3.1%	16	5.7%	4,269	2.7%
70-74	2,268	1.7%	525	2.0%	9	3.2%	2,802	1.8%
75-79	1,463	1.1%	353	1.3%	9	3.2%	1,825	1.2%
80-84	886	0.7%	232	0.9%	6	2.1%	1,124	0.7%
85+	647	0.5%	172	0.6%	10	3.6%	829	0.5%
Unknown	6,443	4.9%	501	1.9%	0	0.0%	6,944	4.4%
<b>Total</b>	<b>131,398</b>	<b>100.0%</b>	<b>26,738</b>	<b>100.0%</b>	<b>281</b>	<b>100.0%</b>	<b>158,417</b>	<b>100.0%</b>



- The largest proportion of persons in crashes were aged 15-29 years (39% of known).
- The age groups with the highest number of persons killed were 15-29, and 55-59 years.
- The average age of a person in a crash was 33.2 years. The average age of a person killed was 41.0 years.
- While persons aged 65 years and older represented a small proportion of the persons in crashes (7% of known), they were 2.8 times more likely than all other age groups to die.

## Crash Conditions

### Persons in Crashes by County (Utah 2016)

County	Persons											
	Non-Injured			Injured			Killed			Total		
	#	Rate per 100 Million VMT	Rate per 10,000 Pop.	#	Rate per 100 Million VMT	Rate per 10,000 Pop.	#	Rate per 100 Million VMT	Rate per 10,000 Pop.	#	Rate per 100 Million VMT	Rate per 10,000 Pop.
Salt Lake	61,667	626.4	549.9	12,137	123.3	108.2	69	0.70	0.62	73,873	750.4	658.8
Weber	9,372	521.9	378.6	2,213	123.2	89.4	19	1.06	0.77	11,604	646.1	468.7
Utah	19,882	421.1	335.7	4,236	89.7	71.5	31	0.66	0.52	24,149	511.4	407.7
Davis	12,604	426.1	368.2	2,489	84.1	72.7	27	0.91	0.79	15,120	511.1	441.7
Cache	4,096	411.2	333.7	698	70.1	56.9	12	1.20	0.98	4,806	482.5	391.5
Washington	6,128	368.9	382.4	1,210	72.8	75.5	15	0.90	0.94	7,353	442.7	458.9
Wasatch	1,373	341.7	449.8	231	57.5	75.7	7	1.74	2.29	1,611	401.0	527.7
Box Elder	2,846	281.9	535.6	565	56.0	106.3	10	0.99	1.88	3,421	338.8	643.8
Garfield	318	244.4	637.8	84	64.5	168.5	5	3.84	10.03	407	312.8	816.3
Summit	2,224	259.6	551.8	398	46.5	98.7	4	0.47	0.99	2,626	306.5	651.5
Tooele	2,082	230.7	321.1	501	55.5	77.3	20	2.22	3.08	2,603	288.4	401.5
Sanpete	513	206.7	174.4	157	63.3	53.4	4	1.61	1.36	674	271.6	229.2
Iron	1,850	221.7	370.5	356	42.7	71.3	4	0.48	0.80	2,210	264.8	442.6
Uintah	950	216.8	261.2	147	33.5	40.4	3	0.68	0.82	1,100	251.0	302.4
Carbon	665	189.7	326.0	131	37.4	64.2	3	0.86	1.47	799	227.9	391.7
Rich	92	167.4	396.7	30	54.6	129.4	0	0.00	0.00	122	222.0	526.1
Sevier	608	166.0	285.9	175	47.8	82.3	9	2.46	4.23	792	216.2	372.4
Beaver	505	167.2	781.4	124	41.1	191.9	0	0.00	0.00	629	208.3	973.2
Kane	257	154.6	350.4	63	37.9	85.9	2	1.20	2.73	322	193.7	439.1
Piute	47	144.1	320.6	15	46.0	102.3	1	3.07	6.82	63	193.1	429.7
Duchesne	506	154.5	248.8	99	30.2	48.7	1	0.31	0.49	606	185.0	298.0
Juab	651	144.9	591.3	162	36.1	147.1	5	1.11	4.54	818	182.1	743.0
Wayne	67	122.5	248.0	32	58.5	118.4	0	0.00	0.00	99	181.0	366.4
Morgan	218	146.4	190.6	38	25.5	33.2	1	0.67	0.87	257	172.6	224.7
Millard	762	134.9	600.3	198	35.1	156.0	5	0.89	3.94	965	170.9	760.2
Emery	389	99.8	380.8	112	28.7	109.6	9	2.31	8.81	510	130.9	499.2
San Juan	358	108.0	211.9	51	15.4	30.2	10	3.02	5.92	419	126.4	248.0
Grand	344	84.8	359.1	86	21.2	89.8	4	0.99	4.18	434	106.9	453.1
Daggett	24	69.2	219.2	0	0.0	0.0	1	2.88	9.13	25	72.1	228.3
<b>Statewide</b>	<b>131,398</b>	<b>426.9</b>	<b>430.6</b>	<b>26,738</b>	<b>86.9</b>	<b>87.6</b>	<b>281</b>	<b>0.91</b>	<b>0.92</b>	<b>158,417</b>	<b>514.7</b>	<b>519.2</b>

- Two different rates are given in the above table. One rate is based on vehicle miles traveled in the county and the other based on the county population.
- Rate per 100 million vehicle miles traveled:
  - Salt Lake (750), Weber (646), Utah (511), and Davis (511) counties had the highest rates of total persons in crashes per 100 million vehicle miles traveled.
  - Garfield (3.8), Piute (3.1), and San Juan (3.0) counties had the highest rates of persons killed per 100 million vehicle miles traveled.
- Rate per 10,000 population:
  - Beaver (973), Garfield (816), Millard (760), and Juab (743) counties had the highest rates of total persons in crashes per 10,000 population.
  - Garfield (10.0), Daggett (9.1), Emery (8.8), and Piute (6.8) counties had the highest rates of persons killed per 10,000 population.

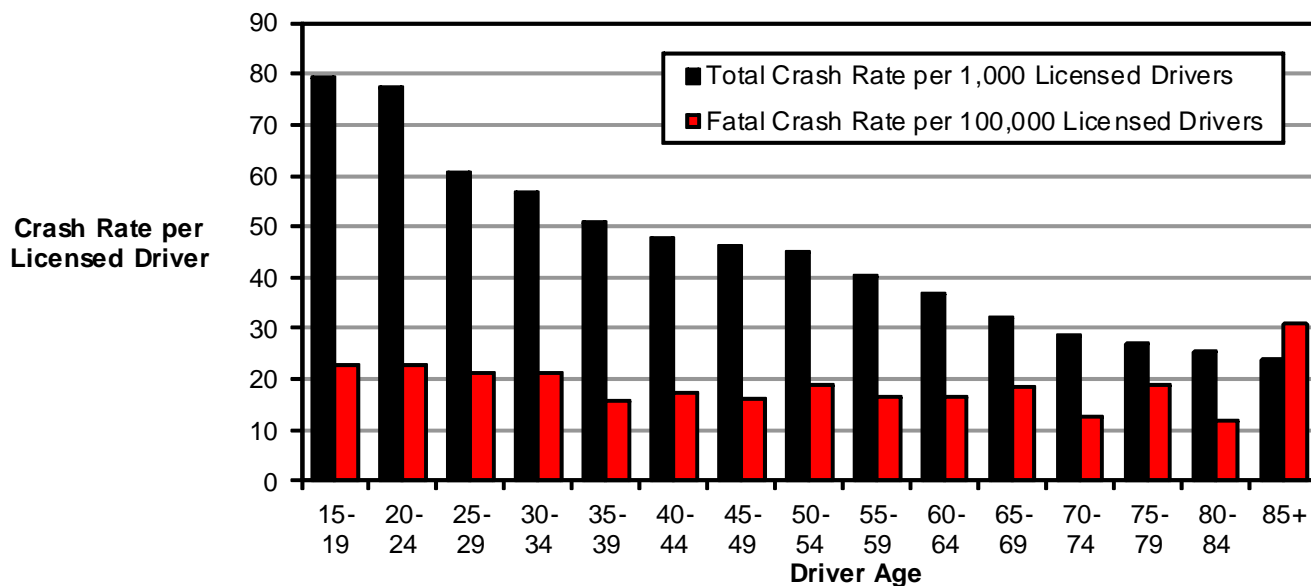


## Crash Conditions

### Driver Age (Utah 2016)

Drivers												
Age	PDO Crashes			Injury Crashes			Fatal Crashes			Total		
	#	%	Rate per 1,000 Drivers	#	%	Rate per 1,000 Drivers	#	%	Rate per 1,000 Drivers	#	%	Rate per 1,000 Drivers
<15	31	0.0%	n/a	43	0.1%	n/a	3	0.7%	n/a	77	0.1%	n/a
15-19	10,255	13.2%	55.8	4,296	12.0%	23.4	42	10.4%	0.229	14,593	12.8%	79.5
20-24	11,422	14.7%	52.9	5,282	14.8%	24.4	49	12.2%	0.227	16,753	14.7%	77.5
25-29	8,896	11.5%	41.2	4,140	11.6%	19.2	46	11.4%	0.213	13,082	11.5%	60.5
30-34	7,805	10.1%	38.1	3,766	10.6%	18.4	43	10.7%	0.210	11,614	10.2%	56.7
35-39	7,179	9.3%	34.0	3,548	10.0%	16.8	33	8.2%	0.156	10,760	9.5%	50.9
40-44	5,831	7.5%	32.2	2,782	7.8%	15.4	31	7.7%	0.171	8,644	7.6%	47.8
45-49	4,855	6.3%	31.4	2,240	6.3%	14.5	25	6.2%	0.162	7,120	6.3%	46.0
50-54	4,204	5.4%	30.3	2,018	5.7%	14.6	26	6.5%	0.187	6,248	5.5%	45.1
55-59	3,849	5.0%	26.7	1,931	5.4%	13.4	24	6.0%	0.166	5,804	5.1%	40.3
60-64	3,259	4.2%	24.6	1,575	4.4%	11.9	22	5.5%	0.166	4,856	4.3%	36.6
65-69	2,287	2.9%	21.2	1,147	3.2%	10.6	20	5.0%	0.186	3,454	3.0%	32.0
70-74	1,503	1.9%	18.8	777	2.2%	9.7	10	2.5%	0.125	2,290	2.0%	28.6
75-79	927	1.2%	17.6	486	1.4%	9.2	10	2.5%	0.190	1,423	1.3%	27.0
80-84	573	0.7%	16.9	291	0.8%	8.6	4	1.0%	0.118	868	0.8%	25.6
85+	393	0.5%	15.1	222	0.6%	8.5	8	2.0%	0.308	623	0.5%	24.0
Unknown	4,293	5.5%	n/a	1,109	3.1%	n/a	6	1.5%	n/a	5,408	4.8%	n/a
<b>Total</b>	<b>77,562</b>	<b>100.0%</b>	<b>37.2</b>	<b>35,653</b>	<b>100.0%</b>	<b>17.1</b>	<b>402</b>	<b>100.0%</b>	<b>0.193</b>	<b>113,617</b>	<b>100.0%</b>	<b>54.5</b>

### Crash Rate of Licensed Drivers by Age (Utah 2016)



- Drivers aged 15-24 years had the highest rates per licensed driver of total crashes.
- Drivers aged 85+ and 15-24 years had the highest rates per driver of fatal crashes.
- Drivers aged 85+ years had the lowest rate per licensed driver of total crashes. Drivers aged 80-84 years had the lowest rate per licensed driver of fatal crashes.
- The average age of a driver was 37.2 years. The average age of a driver in a fatal crash was 40.6 years.



# Crash Conditions

## Driver Gender (Utah 2016)

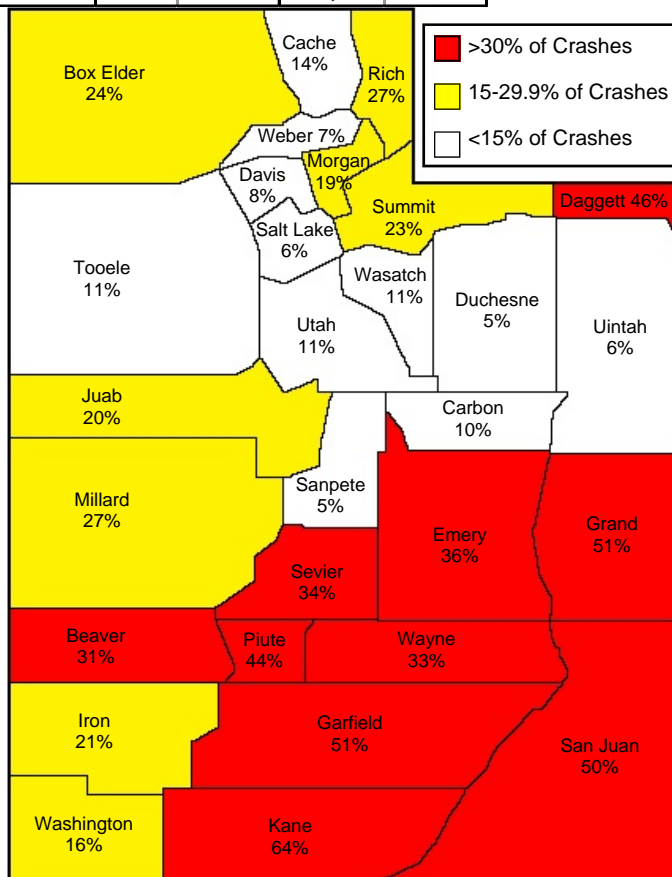
Gender	Drivers											
	PDO Crashes			Injury Crashes			Fatal Crashes			Total		
	#	%	Rate per 1,000 Drivers	#	%	Rate per 1,000 Drivers	#	%	Rate per 1,000 Drivers	#	%	Rate per 1,000 Drivers
Male	43,784	56.5%	41.7	19,068	53.5%	18.1	292	72.6%	0.28	63,144	55.6%	60.1
Female	30,354	39.1%	29.4	15,811	44.3%	15.3	105	26.1%	0.10	46,270	40.7%	44.8
Unknown	3,424	4.4%	n/a	774	2.2%	n/a	5	1.2%	n/a	4,203	3.7%	n/a
<b>Total</b>	<b>77,562</b>	<b>100.0%</b>	<b>37.2</b>	<b>35,653</b>	<b>100.0%</b>	<b>17.1</b>	<b>402</b>	<b>100.0%</b>	<b>0.19</b>	<b>113,617</b>	<b>100.0%</b>	<b>54.5</b>

- Males represented 56% of all drivers in a crash and 73% of drivers in fatal crashes.
- Based off of licensed drivers, females are better drivers than males. Male drivers had higher rates of total crashes and fatal crashes. Among all licensed drivers, male drivers were 1.4 times more likely to be in a crash than female. Among drivers in crashes, males were 2.0 times more likely to be in a fatal crash than females.

## Out-of-State Drivers (Utah 2016)

License State	Drivers							
	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Utah	64,941	83.7%	30,683	86.1%	342	85.1%	95,966	84.5%
Out-Of-State	7,260	9.4%	3,146	8.8%	50	12.4%	10,456	9.2%
Unknown/None	5,361	6.9%	1,824	5.1%	10	2.5%	7,195	6.3%
<b>Total</b>	<b>77,562</b>	<b>100.0%</b>	<b>35,653</b>	<b>100.0%</b>	<b>402</b>	<b>100.0%</b>	<b>113,617</b>	<b>100.0%</b>

- Although out-of-state licensed drivers represented 9% of all drivers in crashes, they represented 12% of drivers in fatal crashes.
- There were several counties that had a disproportionate amount of out-of-state drivers in crashes. Most notably in Kane (64%), Grand (51%), Garfield (51%), and San Juan (50%) Counties where over half of the drivers in crashes were out-of-state drivers. These drivers may place an extra burden on the residents and medical services in these counties.



## Crash Conditions

### Violations (Utah 2016)

Violations	Drivers							
	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Following Too Close	5,588	21.1%	2,758	19.1%	2	3.4%	8,348	20.4%
Failure to Yield Right of Way	2,539	9.6%	1,861	12.9%	10	16.9%	4,410	10.8%
Improper Turn	2,513	9.5%	1,345	9.3%	1	1.7%	3,859	9.4%
Improper Lane Change/Travel	2,602	9.8%	965	6.7%	0	0.0%	3,567	8.7%
Improper Lookout	2,215	8.4%	1,021	7.1%	0	0.0%	3,236	7.9%
Negligent Collision	1,887	7.1%	862	6.0%	0	0.0%	2,749	6.7%
License Violation	1,553	5.9%	1,030	7.1%	4	6.8%	2,587	6.3%
Speed	1,511	5.7%	735	5.1%	0	0.0%	2,246	5.5%
Driving Under the Influence	963	3.6%	739	5.1%	8	13.6%	1,710	4.2%
Failure to Stop at Red Light	701	2.6%	782	5.4%	1	1.7%	1,484	3.6%
Insurance Violation	746	2.8%	504	3.5%	0	0.0%	1,250	3.0%
Hit and Run	784	3.0%	229	1.6%	2	3.4%	1,015	2.5%
Failure to Obey Traffic Control Device	255	1.0%	244	1.7%	3	5.1%	502	1.2%
Registration Violation	323	1.2%	170	1.2%	1	1.7%	494	1.2%
Unknown Violation	278	1.1%	175	1.2%	2	3.4%	455	1.1%
Failure to Stop at Stop Sign	202	0.8%	180	1.2%	0	0.0%	382	0.9%
Equipment Violation	278	1.1%	90	0.6%	0	0.0%	368	0.9%
Improper Backing	275	1.0%	18	0.1%	0	0.0%	293	0.7%
Alcohol/Drug Violation, Other than DUI	151	0.6%	132	0.9%	6	10.2%	289	0.7%
Careless Driving	159	0.6%	91	0.6%	0	0.0%	250	0.6%
Failure to Maintain Control	147	0.6%	94	0.6%	0	0.0%	241	0.6%
Improper Start	155	0.6%	57	0.4%	0	0.0%	212	0.5%
Improper Passing	152	0.6%	34	0.2%	0	0.0%	186	0.5%
Reckless Driving	87	0.3%	60	0.4%	3	5.1%	150	0.4%
Wrong Side of Road/Wrong Way	76	0.3%	65	0.4%	0	0.0%	141	0.3%
Other Non-Moving Violation	44	0.2%	27	0.2%	2	3.4%	73	0.2%
Texting	41	0.2%	31	0.2%	0	0.0%	72	0.2%
Slow Down/Move Over Emergency Vehicle	44	0.2%	25	0.2%	0	0.0%	69	0.2%
Improper Signal	42	0.2%	25	0.2%	0	0.0%	67	0.2%
Seat Belt/Child Restraint/Helmet	15	0.1%	38	0.3%	1	1.7%	54	0.1%
Driving While Drowsy/Fatigue/Ill	32	0.1%	21	0.1%	0	0.0%	53	0.1%
Improper Stop	38	0.1%	15	0.1%	0	0.0%	53	0.1%
Distracted Driving	24	0.1%	20	0.1%	0	0.0%	44	0.1%
Other Moving Violation	23	0.1%	11	0.1%	1	1.7%	35	0.1%
Evading/Fleeing	14	0.1%	10	0.1%	0	0.0%	24	0.1%
Improper Parking	15	0.1%	5	0.0%	0	0.0%	20	0.0%
Vehicle Homicide	0	0.0%	0	0.0%	12	20.3%	12	0.0%
<b>Total</b>	<b>26,472</b>	<b>100.0%</b>	<b>14,469</b>	<b>100.0%</b>	<b>59</b>	<b>100.0%</b>	<b>41,000</b>	<b>100.0%</b>

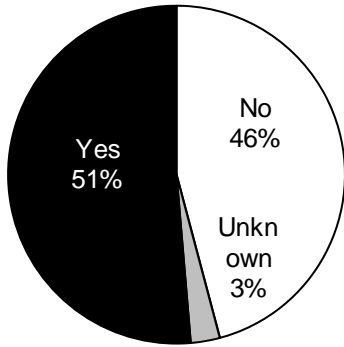
- There were 41,000 charges from citations issued at the scene of the crash. The most common violations were for following too close (20%), failure to yield right of way (11%), improper turn (9%), and improper lane change/travel (9%).
- The leading violations in fatal crashes were vehicle homicide (20%), failure to yield (17%), and driving under the influence (14%).
- A citation was issued in 60% of the crashes.

# Crash Conditions

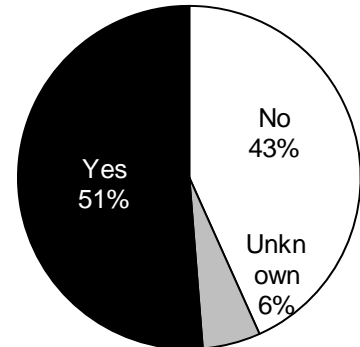
## Drivers with Contributing Factors (Utah 2016)

Driver/Vehicle with a Contributing Factor(s)	Drivers/Vehicles							
	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Yes	40,689	51.0%	18,843	52.2%	206	51.2%	59,738	51.3%
No	36,813	46.1%	16,361	45.3%	174	43.3%	53,348	45.9%
Unknown	2,313	2.9%	922	2.6%	22	5.5%	3,257	2.8%
<b>Total</b>	<b>79,815</b>	<b>100.0%</b>	<b>36,126</b>	<b>100.0%</b>	<b>402</b>	<b>100.0%</b>	<b>116,343</b>	<b>100.0%</b>

### Total Crashes



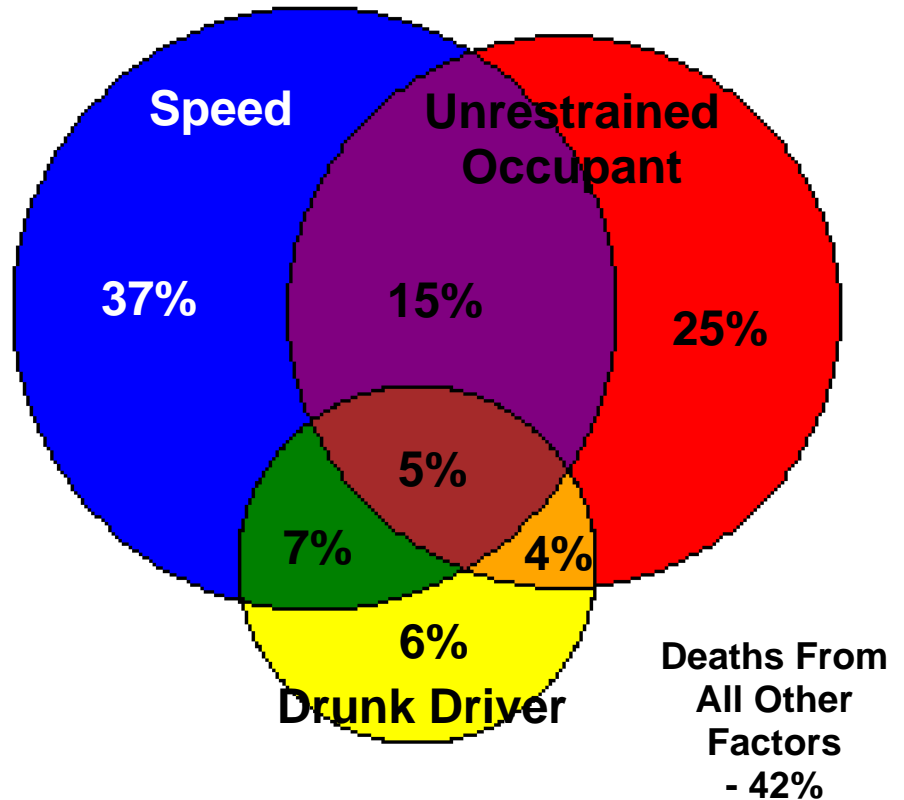
### Fatal Crashes



- Some form of poor driver performance is present in the majority of crashes.
- 51.3% of drivers had a contributing factor in total crashes.
- 51.2% of drivers had a contributing factor in fatal crashes.

## Overlap of Selected Contributing Factors in Deaths (Utah 2016)

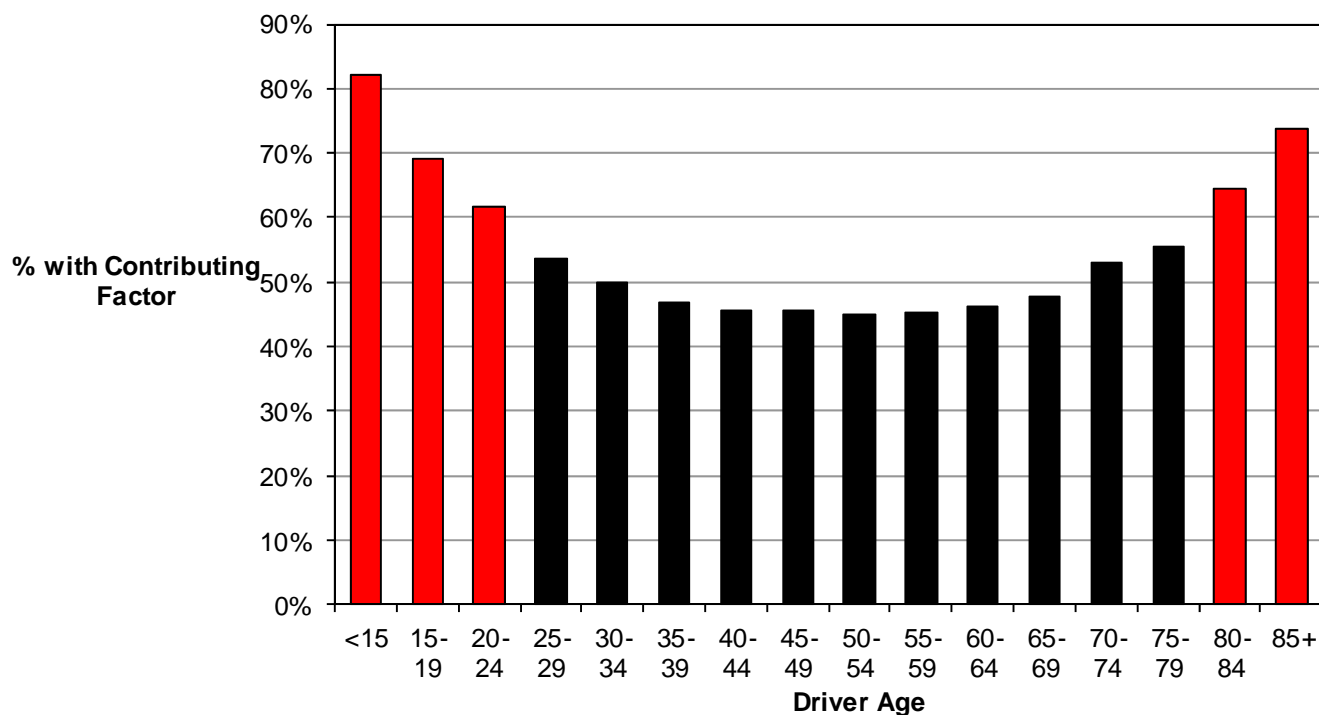
- This Venn Diagram shows the overlap of just three causes of death — speed, unrestrained occupant, and drunk driver. Many other factors also contribute to deaths and crashes.
- 162 of the 281 (58%) deaths had a contributing factor of speed, unrestrained occupant, or drunk driver.
- Of these deaths, 37% only had the contributing factor of speed, 25% only had the contributing factor of unrestrained occupant, and 6% only had the contributing factor of drunk driver.
- Among the deaths that had two of these factors, 15% had the factors of speed and unrestrained occupant, 7% had the factors of speed and drunk driver, and 4% had the factors of unrestrained occupant and drunk driver.
- 5% of these deaths had all three contributing factors.



## Crash Conditions

### Drivers with a Contributing Factor by Age (Utah 2016)

Drivers with a Contributing Factor												
Driver Age	PDO Crashes			Injury Crashes			Fatal Crashes			Total		
	No	Yes		No	Yes		No	Yes		No	Yes	
	#	#	%	#	#	%	#	#	%	#	#	%
<15	5	23	82.1%	7	35	83.3%	1	2	66.7%	13	60	82.2%
15-19	3,211	6,836	68.0%	1,201	3,017	71.5%	15	26	63.4%	4,427	9,879	69.1%
20-24	4,309	6,867	61.4%	1,951	3,210	62.2%	18	29	61.7%	6,278	10,106	61.7%
25-29	4,093	4,571	52.8%	1,804	2,233	55.3%	16	30	65.2%	5,913	6,834	53.6%
30-34	3,834	3,781	49.7%	1,827	1,850	50.3%	17	23	57.5%	5,678	5,654	49.9%
35-39	3,749	3,261	46.5%	1,831	1,627	47.1%	9	20	69.0%	5,589	4,908	46.8%
40-44	3,053	2,623	46.2%	1,512	1,209	44.4%	14	15	51.7%	4,579	3,847	45.7%
45-49	2,603	2,106	44.7%	1,161	1,027	46.9%	12	13	52.0%	3,776	3,146	45.4%
50-54	2,238	1,842	45.1%	1,090	870	44.4%	13	11	45.8%	3,341	2,723	44.9%
55-59	2,040	1,710	45.6%	1,042	840	44.6%	11	9	45.0%	3,093	2,559	45.3%
60-64	1,709	1,470	46.2%	826	708	46.2%	13	8	38.1%	2,548	2,186	46.2%
65-69	1,175	1,052	47.2%	570	545	48.9%	9	11	55.0%	1,754	1,608	47.8%
70-74	703	759	51.9%	347	417	54.6%	3	7	70.0%	1,053	1,183	52.9%
75-79	398	507	56.0%	217	257	54.2%	3	7	70.0%	618	771	55.5%
80-84	202	364	64.3%	102	185	64.5%	0	4	100.0%	304	553	64.5%
85+	107	276	72.1%	50	167	77.0%	2	6	75.0%	159	449	73.8%
Unknown	1,188	2,584	68.5%	356	640	64.3%	1	4	80.0%	1,545	3,228	67.6%
<b>Total</b>	<b>34,617</b>	<b>40,632</b>	<b>54.0%</b>	<b>15,894</b>	<b>18,837</b>	<b>54.2%</b>	<b>157</b>	<b>225</b>	<b>58.9%</b>	<b>50,668</b>	<b>59,694</b>	<b>54.1%</b>



- This information shows that younger and older drivers were the most likely to have a contributing factor in a crash.
- Drivers aged <25 and 80+ had the highest percent of drivers with a contributing factor in total crashes.
- Drivers aged 30-69 had the lowest percent of drivers with a contributing factor in total crashes.

# Crash Conditions

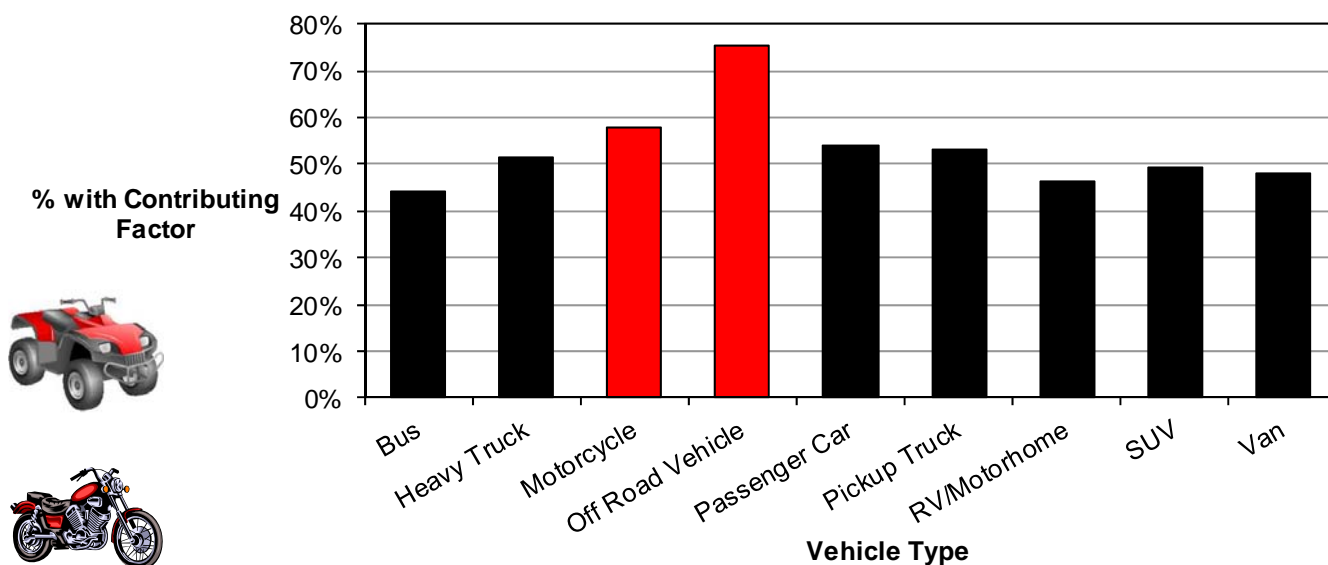
## Drivers with a Contributing Factor by Gender (Utah 2016)

Drivers with a Contributing Factor												
Driver Gender	PDO Crashes			Injury Crashes			Fatal Crashes			Total		
	No	Yes		No	Yes		No	Yes		No	Yes	
	#	#	%	#	#	%	#	#	%	#	#	%
Male	19,579	23,132	54.2%	8,347	10,267	55.2%	110	166	60.1%	28,036	33,565	54.5%
Female	14,124	15,448	52.2%	7,315	8,111	52.6%	47	55	53.9%	21,486	23,614	52.4%
Unknown	914	2,052	69.2%	232	459	66.4%	0	4	100.0%	1,146	2,515	68.7%
<b>Total</b>	<b>34,617</b>	<b>40,632</b>	<b>54.0%</b>	<b>15,894</b>	<b>18,837</b>	<b>54.2%</b>	<b>157</b>	<b>225</b>	<b>58.9%</b>	<b>50,668</b>	<b>59,694</b>	<b>54.1%</b>

- Male drivers were slightly more likely to have a contributing factor in a crash than female drivers.

## Drivers with a Contributing Factor by Vehicle Type (Utah 2016)

Drivers/Vehicles with a Contributing Factor												
Vehicle Type	PDO Crashes			Injury Crashes			Fatal Crashes			Total		
	No	Yes		No	Yes		No	Yes		No	Yes	
	#	#	%	#	#	%	#	#	%	#	#	%
Off Road Vehicle	12	21	63.6%	30	106	77.9%	1	6	85.7%	43	133	75.6%
Motorcycle	74	86	53.8%	390	551	58.6%	13	23	63.9%	477	660	58.0%
Passenger Car	18,318	21,401	53.9%	8,390	10,076	54.6%	49	96	66.2%	26,757	31,573	54.1%
Pickup Truck	5,932	6,638	52.8%	2,246	2,653	54.2%	34	39	53.4%	8,212	9,330	53.2%
Heavy Truck	1,364	1,465	51.8%	366	385	51.3%	15	9	37.5%	1,745	1,859	51.6%
SUV	8,549	8,194	48.9%	3,805	3,925	50.8%	38	38	50.0%	12,392	12,157	49.5%
Van	2,095	1,917	47.8%	1,036	979	48.6%	6	7	53.8%	3,137	2,903	48.1%
RV/Motorhome	46	44	48.9%	15	9	37.5%	0	0	n/a	61	53	46.5%
Bus	179	156	46.6%	48	23	32.4%	0	1	100.0%	227	180	44.2%
Other	14	28	66.7%	5	8	61.5%	1	1	50.0%	20	37	64.9%
Unknown	230	739	76.3%	30	128	81.0%	0	5	100.0%	260	872	77.0%
<b>Total</b>	<b>36,813</b>	<b>40,689</b>	<b>52.5%</b>	<b>16,361</b>	<b>18,843</b>	<b>53.5%</b>	<b>157</b>	<b>225</b>	<b>58.9%</b>	<b>53,331</b>	<b>59,757</b>	<b>52.8%</b>



- Drivers of off road vehicles and motorcycles were the most likely to have a contributing factor in total crashes.
- Drivers of buses and RV/motorhomes were the least likely to have a contributing factor in total crashes.

## Crash Conditions

### Contributing Factors (Utah 2016)

Contributing Factors	Drivers/Vehicles							
	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Followed Too Closely	10,344	16.7%	4,952	16.3%	9	2.4%	15,305	16.5%
Failed to Yield Right of Way	7,576	12.2%	4,704	15.5%	43	11.5%	12,323	13.3%
Speed Too Fast	6,310	10.2%	2,750	9.1%	67	17.9%	9,127	9.8%
Failed to Keep in Proper Lane	5,480	8.8%	2,365	7.8%	6	1.6%	7,851	8.5%
Driver Distraction	3,566	5.8%	2,225	7.3%	27	7.2%	5,818	6.3%
Other Improper Driving	3,219	5.2%	1,622	5.3%	3	0.8%	4,844	5.2%
Vision Obscured by Weather Condition	2,852	4.6%	1,071	3.5%	13	3.5%	3,936	4.2%
Disregard Traffic Signal/Sign	1,779	2.9%	1,760	5.8%	17	4.5%	3,556	3.8%
Improper Turn	2,292	3.7%	883	2.9%	6	1.6%	3,181	3.4%
Hit and Run	2,269	3.7%	555	1.8%	6	1.6%	2,830	3.1%
Improper Lane Change	2,261	3.6%	437	1.4%	6	1.6%	2,704	2.9%
Ran Off Road	1,431	2.3%	870	2.9%	33	8.8%	2,334	2.5%
Driving Under the Influence	1,227	2.0%	956	3.1%	30	8.0%	2,213	2.4%
Improper Backing	1,784	2.9%	120	0.4%	1	0.3%	1,905	2.1%
Overcorrected	823	1.3%	587	1.9%	30	8.0%	1,440	1.6%
Swerved or Evasive Action	927	1.5%	500	1.6%	1	0.3%	1,428	1.5%
Improper Parking/Stopping	942	1.5%	331	1.1%	0	0.0%	1,273	1.4%
Driver Asleep/Fatigue	746	1.2%	512	1.7%	14	3.7%	1,272	1.4%
Vision Obscured by Moving Vehicle	719	1.2%	344	1.1%	4	1.1%	1,067	1.2%
Vehicle Other Defective Condition	671	1.1%	263	0.9%	3	0.8%	937	1.0%
Reckless/Aggressive Driving	446	0.7%	291	1.0%	16	4.3%	753	0.8%
Vehicle Tires	544	0.9%	189	0.6%	7	1.9%	740	0.8%
Vehicle Brakes	446	0.7%	245	0.8%	2	0.5%	693	0.7%
Vision Obscured by Glare	377	0.6%	244	0.8%	0	0.0%	621	0.7%
Vision Obscured by Parked Vehicle	460	0.7%	151	0.5%	0	0.0%	611	0.7%
Driver Illness/Medical	243	0.4%	339	1.1%	6	1.6%	588	0.6%
Vision Obscured by Other	342	0.6%	184	0.6%	2	0.5%	528	0.6%
Improper Passing	423	0.7%	86	0.3%	2	0.5%	511	0.6%
Driver Condition Other	269	0.4%	193	0.6%	0	0.0%	462	0.5%
Driver Emotional Prior to Crash	226	0.4%	179	0.6%	6	1.6%	411	0.4%
Wrong Side/Wrong Way	206	0.3%	165	0.5%	11	2.9%	382	0.4%
Vehicle Cargo	265	0.4%	35	0.1%	0	0.0%	300	0.3%
Disregard Road Markings	129	0.2%	61	0.2%	0	0.0%	190	0.2%
Vision Obscured by Physical Obstruction	107	0.2%	80	0.3%	0	0.0%	187	0.2%
Windshield or Other Window Obscured	133	0.2%	48	0.2%	3	0.8%	184	0.2%
Vision Obscured by Vegetation	90	0.1%	38	0.1%	0	0.0%	128	0.1%
Improper Signal	68	0.1%	24	0.1%	0	0.0%	92	0.1%
<b>Total</b>	<b>61,992</b>	<b>100.0%</b>	<b>30,359</b>	<b>100.0%</b>	<b>374</b>	<b>100.0%</b>	<b>92,725</b>	<b>100.0%</b>

- Some form of poor driver performance is present in the majority of crashes. The leading contributing factors for all crashes were followed too closely (17%), failed to yield right of way (13%), speed too fast (10%), and failed to keep in proper lane (9%).
- The leading contributing factors in fatal crashes were speed too fast (18%) and failed to yield (12%).
- The contributing factors that contributed more to injury crashes than non-injury crashes were: failure to yield right of way, disregard traffic signal/sign, driver distraction, and driving under the influence.