

Overview

Section 1: Overview

Trends

Utah vs. U.S. Death Rate per Miles Traveled	28
Crashes 2002-2011	29
Persons Involved 2002-2011	30
Deaths by Month 2002-2011	31
Holiday Deaths 2002-2011	32

Counties

Crashes by County	33
Persons in Crashes by County	34
Fatal Crash Locations	35
County Crash Comparison.....	36
Crashes by City.....	37

Persons Involved

Injury Severity	38
Person Placement.....	38
Gender	38
Age	39

Drivers

Driver Age.....	40
Crash Rate of Licensed Drivers by Age	40
Driver Gender	41
Out-of-State Drivers	41

Crash Conditions

Crash Severity	42
Month.....	42
Day of Week	42
Hour	43
Urban/Rural Location	44
Road Surface Condition	44
Light Condition	44
Vehicle Type	45
Vehicle Maneuver	46
Speed Limit.....	46
Travel Speed	47
First Harmful Event	48
Collision Description	49
Number of Vehicles Involved	49
Roadway Junction or Feature	49
Animal Crashes by County	50
Roadway Contributing Circumstances	50
Violations	51
Contributing Factors.....	52



2

0

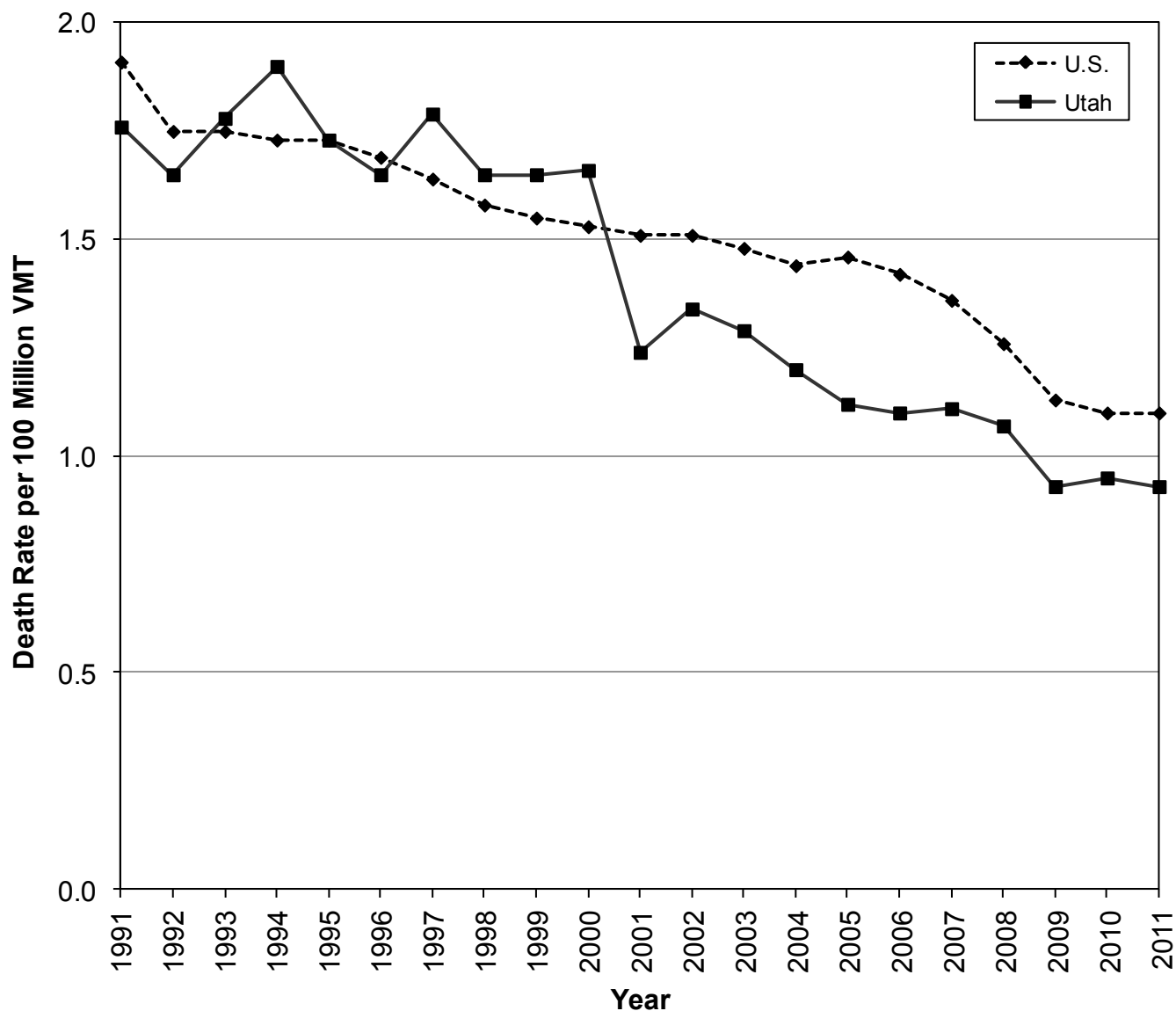
1

1

Trends

Utah vs. U.S. Death Rate per 100 Million Vehicle Miles Traveled, 1991-2011

Death Rate per Miles Traveled																					
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
U.S.	1.91	1.75	1.75	1.73	1.73	1.69	1.64	1.58	1.55	1.53	1.51	1.51	1.48	1.44	1.46	1.42	1.36	1.26	1.15	1.11	1.10
Utah	1.76	1.65	1.78	1.90	1.73	1.65	1.79	1.65	1.65	1.66	1.24	1.34	1.29	1.20	1.12	1.10	1.11	1.07	0.93	0.95	0.93



U.S. SOURCE: National Highway Traffic Safety Administration

- In 2011, the Utah death rate per 100 million vehicle miles traveled was 0.93 which was lower than the U.S. rate of 1.10.
- The Utah death rate per 100 million vehicle miles traveled has been lower than the U.S. rate since 2001. This somewhat dispels the notion that drivers in Utah are worse than other drivers in the U.S.

Trends

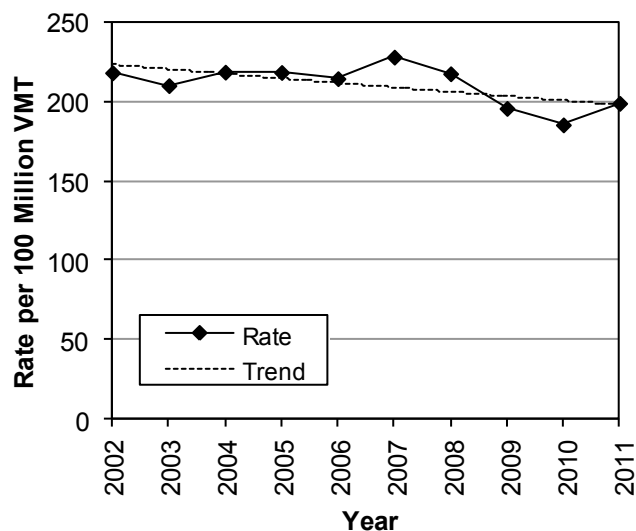
Crashes (Utah 2002-2011)

Crashes								
Year	Property Damage Only		Injury		Fatal		Total	
	#	Rate per 100 Million VMT	#	Rate per 100 Million VMT	#	Rate per 100 Million VMT	#	Rate per 100 Million VMT
2002	33,542	137.2	19,552	80.0	274	1.12	53,368	218.4
2003	31,842	132.9	18,285	76.3	262	1.09	50,389	210.3
2004	34,222	138.9	19,423	78.8	260	1.06	53,905	218.8
2005	35,158	139.9	19,545	77.8	235	0.94	54,938	218.6
2006	37,674	144.0	18,264	69.8	249	0.95	56,187	214.7
2007	42,368	157.9	18,619	69.4	258	0.96	61,245	228.3
2008	38,997	150.7	17,125	66.2	245	0.95	56,367	217.8
2009	35,398	135.0	15,752	60.1	217	0.83	51,367	195.9
2010	34,155	128.3	14,995	56.3	218	0.82	49,368	185.5
2011	36,418	138.7	15,645	59.6	224	0.85	52,287	199.1
Total	359,774	140.5	177,205	69.2	2,442	0.95	539,421	210.6

NOTE: A crash may result in multiple injuries and/or deaths. See next page for persons.

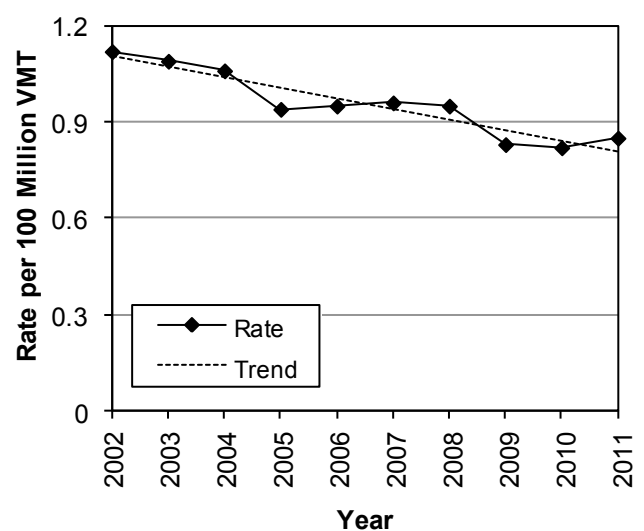
- During the last 10 years, 539,421 motor vehicle crashes occurred in Utah. On average, there are 54,000 crashes a year of which 17,700 involve injuries and 244 involve deaths.
- In 2011, total crashes increased 5.9% from 2010.
- The 2011 total crash rate per 100 million VMT in Utah was 199.1, a 7.3% increase from 2010.

Crash Rates Per 100 Million Vehicle Miles Traveled (Utah 2002-2011)



- The 2010 total crash rate was the lowest on record (see Appendix for records back to 1947).
- There was a 8.8% decrease in the total crash rate from 2002-2011.

Fatal Crash Rates Per 100 Million Vehicle Miles Traveled (Utah 2002-2011)



- There has been a decreasing trend in fatal crash rates over the last 10 years.
- There was a 24.1% decrease in the fatal crash rate from 2002-2011.

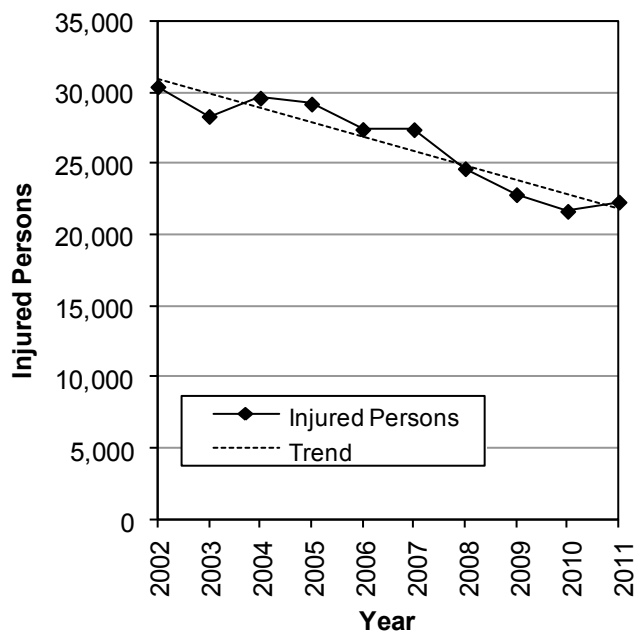
Trends

Persons Involved (Utah 2002-2011)

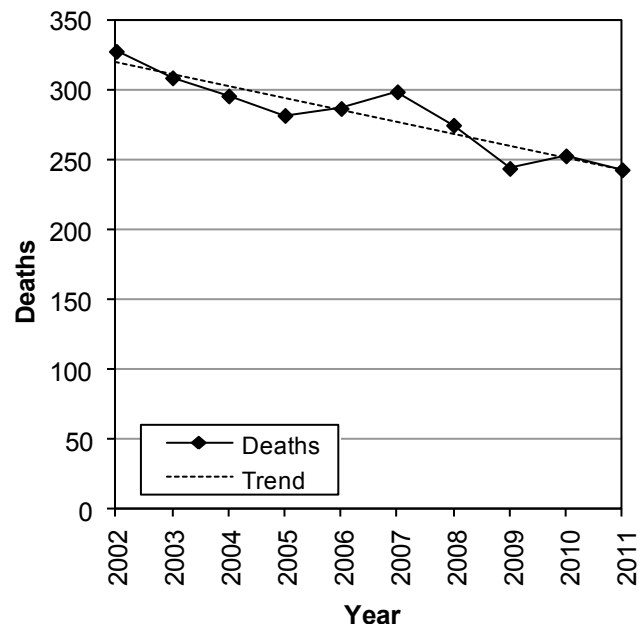
Persons								
Year	Non-Injured		Injured		Killed		Total	
	#	Rate per 100 Million VMT	#	Rate per 100 Million VMT	#	Rate per 100 Million VMT	#	Rate per 100 Million VMT
2002	109,878	449.6	30,433	124.5	328	1.34	140,639	575.5
2003	104,660	436.8	28,352	118.3	309	1.29	133,321	556.4
2004	111,225	451.4	29,638	120.3	296	1.20	141,159	572.8
2005	115,546	459.8	29,221	116.3	282	1.12	145,049	577.2
2006	116,187	444.0	27,433	104.8	287	1.10	143,907	550.0
2007	127,330	474.7	27,420	102.2	299	1.11	155,049	578.0
2008	113,744	439.4	24,673	95.3	276	1.07	138,693	535.8
2009	103,956	396.5	22,847	87.1	244	0.93	127,047	484.6
2010	101,966	383.1	21,675	81.4	253	0.95	123,894	465.5
2011	106,526	405.7	22,325	85.0	243	0.93	129,094	491.7
Total	1,111,018	433.8	264,017	103.1	2,817	1.10	1,377,852	537.9

- During the last 10 years, nearly 1.4 million people have been in a crash. On average over the past 10 years, approximately 26,400 people are injured and 282 people are killed in motor vehicle crashes a year.
- Utah experienced a 4.0% decrease in the number of crash deaths in 2011 from 2010.
- The injury rate per miles traveled increased for the first time since 2004.
- 5,200 more people were in a crash in Utah in 2010; a 4.2% increase from 2010.

Injured Persons by Year (Utah 2002-2011)



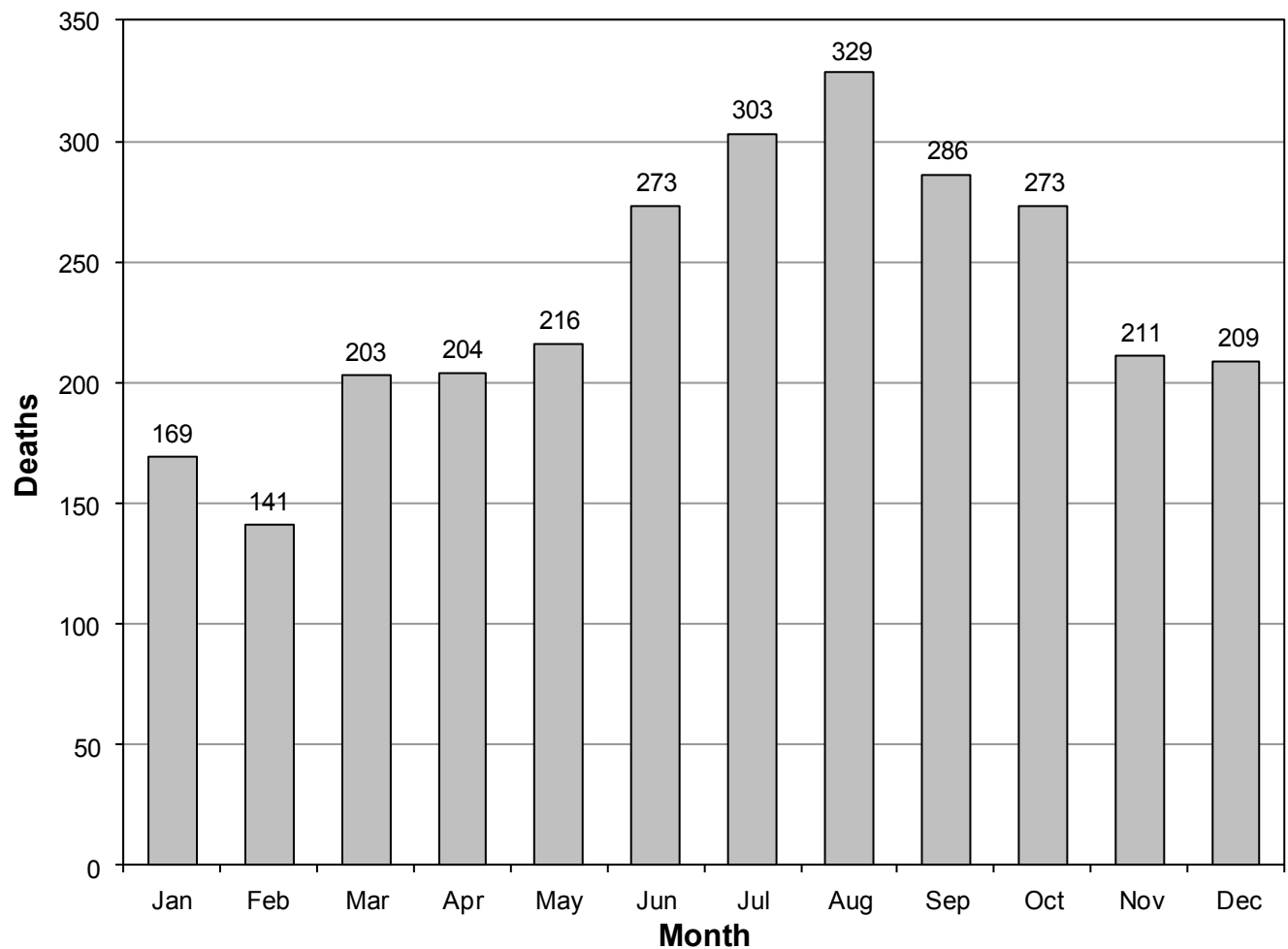
Deaths by Year (Utah 2002-2011)



- There was a 26.6% decrease in the number of people injured over the last 10 years.
- Deaths in 2011 were the lowest total in Utah since 1974.

Trends

Deaths by Month (Utah 2002-2011)

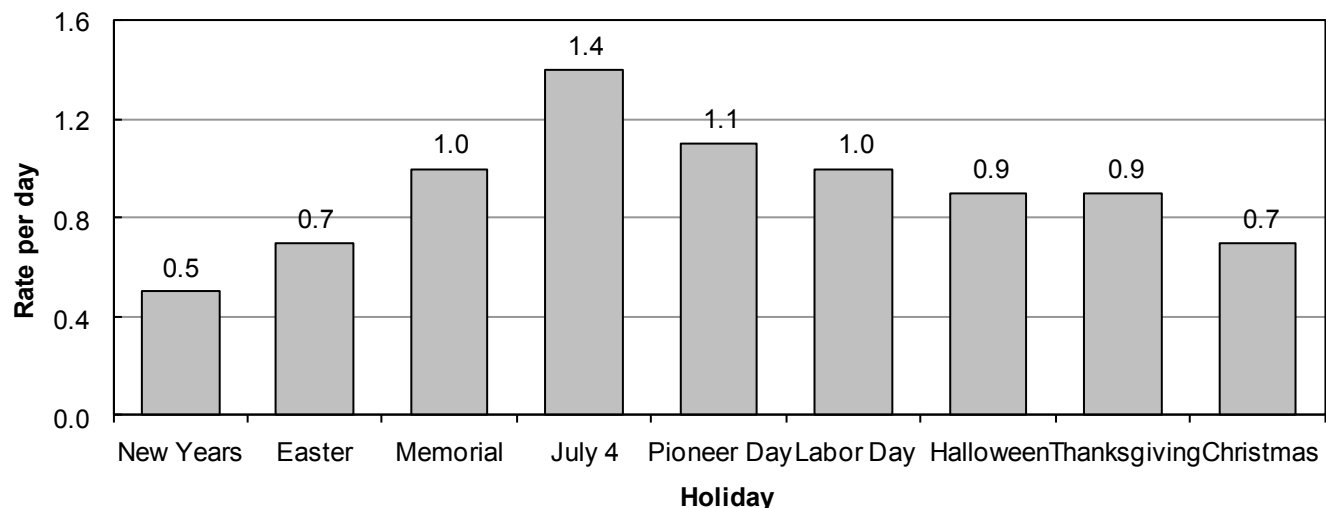


Deaths													
Year	Month												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2002	22	17	18	20	28	19	44	36	36	38	27	23	328
2003	22	15	16	22	20	39	38	39	31	25	17	25	309
2004	9	15	28	20	25	31	28	40	31	26	25	18	296
2005	16	22	14	18	18	25	25	37	31	30	25	21	282
2006	22	15	23	17	14	26	29	33	31	33	23	21	287
2007	16	13	24	35	24	31	35	26	30	26	21	18	299
2008	23	9	12	12	31	30	29	32	23	28	25	22	276
2009	15	17	27	24	21	20	25	32	19	18	13	13	244
2010	8	9	20	22	23	24	28	24	24	28	18	25	253
2011	16	9	21	14	12	28	22	30	30	21	17	23	243
Total	169	141	203	204	216	273	303	329	286	273	211	209	2,817

- In the last 10 years, August (329) and July (303) had the highest total number of motor vehicle crash deaths while February (141) had the fewest.
- In 2011, July and August (30) and September (30) had the highest number of deaths while February (9) had the fewest.

Trends

Holiday Death Rate Per Day (Utah 2002-2011)



Holiday Deaths																				
Year	New Years		Easter		Memorial Day		4th of July		Pioneer Day		Labor Day		Hallow- een		Thanks- giving		Christmas		Total	
	#	Rate per Day	#	Rate per Day	#	Rate per Day	#	Rate per Day	#	Rate per Day	#	Rate per Day	#	Rate per Day	#	Rate per Day	#	Rate per Day	#	Rate per Day
2002	2	0.7	2	0.7	9	2.3	8	1.6	9	3.0	3	0.8	6	1.2	7	1.4	0	0.0	46	1.3
2003	3	1.0	1	0.3	2	0.5	4	1.0	7	1.4	7	1.8	4	1.0	2	0.4	8	1.6	38	1.0
2004	1	0.2	4	1.3	3	0.8	5	1.7	0	0.0	4	1.0	1	0.3	7	1.4	2	0.7	27	0.8
2005	5	1.7	2	0.7	7	1.8	9	2.3	4	1.3	3	0.8	11	2.8	4	0.8	2	0.7	47	1.4
2006	0	0.0	3	1.0	2	0.5	1	0.3	7	1.8	6	1.5	1	0.3	8	1.6	10	2.5	38	1.1
2007	0	0.0	2	0.7	2	0.5	3	1.0	4	1.3	6	1.5	5	1.7	6	1.2	1	0.3	29	1.0
2008	2	0.7	0	0.0	5	1.3	12	3.0	4	0.8	2	0.5	0	0.0	3	0.6	1	0.2	29	0.8
2009	1	0.2	4	1.3	4	1.0	1	0.3	1	0.3	2	0.5	1	0.3	0	0.0	0	0.0	14	0.4
2010	2	0.5	2	0.7	3	0.8	4	1.3	2	0.7	3	0.8	0	0.0	6	1.2	0	0.0	22	0.7
2011	3	1.0	1	0.3	1	0.3	3	0.8	1	0.3	3	0.8	5	1.3	0	0.0	1	0.3	18	0.5
Total	19	0.5	21	0.7	38	1.0	50	1.4	39	1.1	39	1.0	34	0.9	43	0.9	25	0.7	308	0.9

- Holiday deaths are a concern because of the increased death rate due to risk factors such as fatigue, impaired driving, long distance traveling, speeding, and traveling on unfamiliar roadways.
- Over the past 10 years, the 4th of July Holiday (1.4) and the Pioneer Day Holiday (1.1) had the highest rates of deaths while the New Years Holiday (0.5) had the lowest rate.
- In 2011, the Halloween Holiday had the highest death rate per day (1.3) while the Thanksgiving Holiday had the lowest rate (0.0).
- The 2011 holiday death rate per day was 0.5 which was lower than the rate per day for all 2011 days (0.7).

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

The following criteria was used to determine the number of days in the holiday period:

- If a holiday occurred on Sunday, Tuesday, Wednesday, or Saturday, then it was considered a three day holiday (the day prior to the holiday, the holiday, and the day after the holiday).
- If a holiday occurred on Monday, then it was considered a four day holiday (Friday through Monday).
- If a holiday occurred on Friday, then it was considered a four day holiday (Thursday through Sunday).
- If a holiday occurred on Thursday, then it was considered a five day holiday (Wednesday through Sunday).

Counties

Crashes by County (Utah 2011)

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
Utah	6,593	174.8	2,884	76.5	18	0.5	9,495	251.8
Salt Lake	15,003	172.1	6,665	76.5	62	0.7	21,730	249.3
Duchesne	459	192.7	116	48.7	9	3.8	584	245.2
Weber	2,557	159.4	1,271	79.3	21	1.3	3,849	240.0
Cache	1,488	173.6	467	54.5	4	0.5	1,959	228.5
Carbon	467	155.4	92	30.6	7	2.3	566	188.3
Wasatch	418	127.8	164	50.1	3	0.9	585	178.8
Davis	2,937	117.1	1,350	53.8	14	0.6	4,301	171.5
Rich	48	104.1	31	67.2	0	0.0	79	171.3
Sanpete	221	111.6	86	43.4	1	0.5	308	155.6
Kane	146	106.3	57	41.5	3	2.2	206	149.9
Summit	833	115.0	201	27.7	7	1.0	1,041	143.7
Uintah	418	106.1	140	35.5	6	1.5	564	143.1
Garfield	96	89.3	48	44.7	3	2.8	147	136.8
Sevier	308	96.3	107	33.5	5	1.6	420	131.4
Washington	1,095	80.0	664	48.5	9	0.7	1,768	129.2
Tooele	728	89.4	279	34.3	9	1.1	1,016	124.8
Morgan	108	84.1	43	33.5	3	2.3	154	119.9
Box Elder	787	89.3	260	29.5	9	1.0	1,056	119.8
Iron	469	68.1	243	35.3	10	1.5	722	104.8
Piute	20	71.3	8	28.5	1	3.6	29	103.4
Beaver	199	78.9	58	23.0	1	0.4	258	102.3
Wayne	32	69.3	14	30.3	0	0.0	46	99.6
Juab	244	62.8	92	23.7	5	1.3	341	87.8
Emery	195	62.1	57	18.2	4	1.3	256	81.5
San Juan	182	63.3	45	15.7	6	2.1	233	81.1
Grand	142	44.3	91	28.4	1	0.3	234	73.0
Millard	211	46.3	104	22.8	3	0.7	318	69.8
Daggett	14	43.9	8	25.1	0	0.0	22	69.0
Statewide	36,418	138.7	15,645	59.6	224	0.9	52,287	199.1

- Utah (251.8), Salt Lake (249.3), and Duchesne (245.2) counties had the highest total crash rates per miles traveled.
- Daggett (69.0), Millard (69.8), and Grand (73.0) counties had the lowest total crash rates per miles traveled.
- Duchesne (3.8), Piute (3.6), and Garfield (2.8) counties had the highest fatal crash rates per miles traveled.
- Daggett, Rich, and Wayne counties had no fatal crashes.

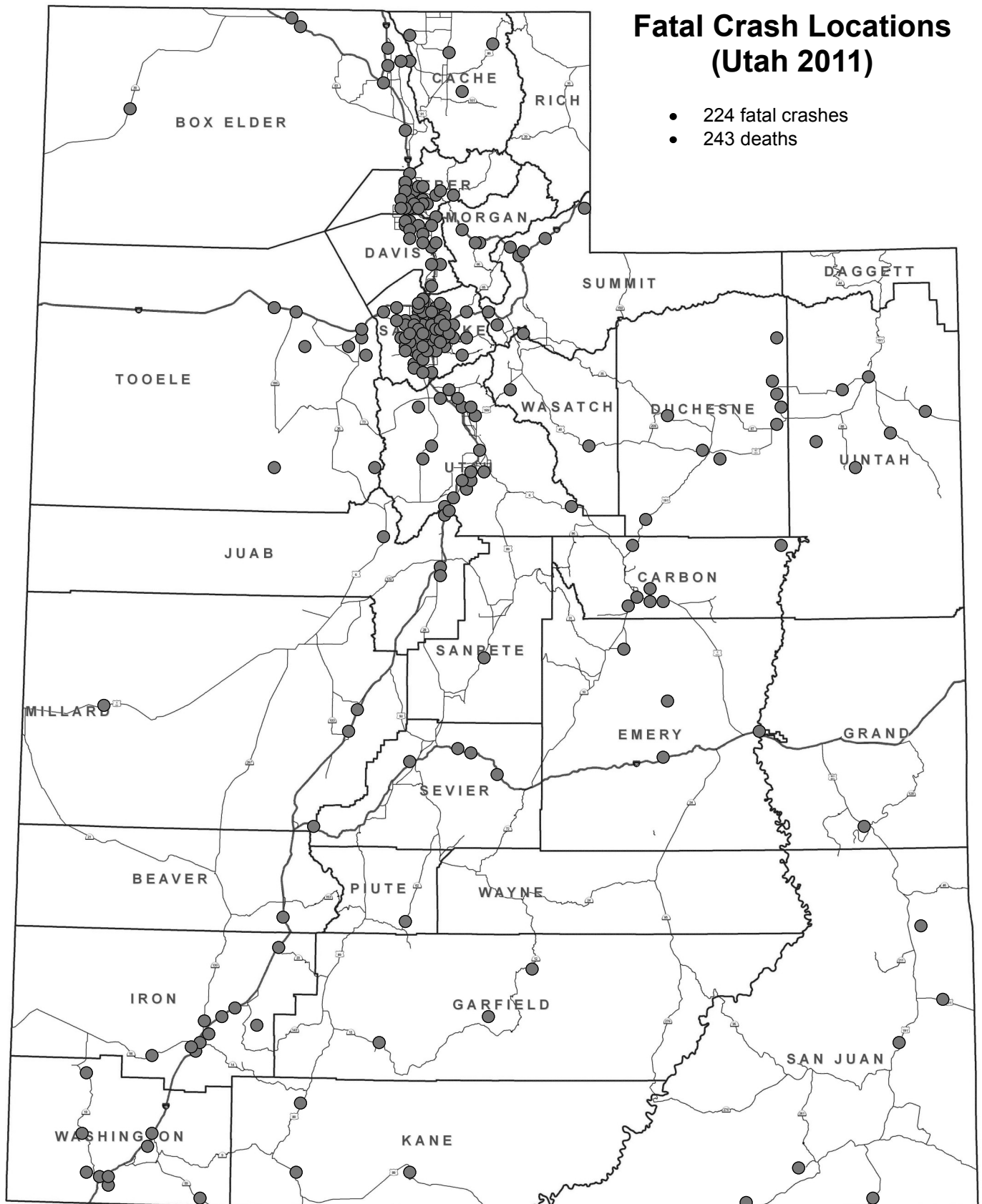
Counties

Persons in Crashes by County (Utah 2011)

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.
Utah	20,155	534.5	379.7	4,218	111.8	79.5	19	0.5	0.4	24,392	646.8	459.5
Salt Lake	45,378	520.6	433.9	9,320	106.9	89.1	66	0.8	0.6	54,764	628.3	523.6
Weber	8,227	513.0	352.7	1,786	111.4	76.6	21	1.3	0.9	10,034	625.7	430.2
Cache	4,363	509.0	380.3	668	77.9	58.2	4	0.5	0.3	5,035	587.4	438.9
Duchesne	905	379.9	473.5	176	73.9	92.1	10	4.2	5.2	1,091	458.0	570.9
Davis	9,323	371.7	298.2	1,917	76.4	61.3	14	0.6	0.4	11,254	448.7	360.0
Washington	3,912	285.9	277.0	914	66.8	64.7	9	0.7	0.6	4,835	353.4	342.4
Wasatch	934	285.5	381.9	213	65.1	87.1	5	1.5	2.0	1,152	352.1	471.1
Carbon	898	298.7	418.0	120	39.9	55.9	9	3.0	4.2	1,027	341.6	478.0
Summit	1,918	264.8	515.5	286	39.5	76.9	9	1.2	2.4	2,213	305.5	594.8
Kane	318	231.5	441.2	94	68.4	130.4	5	3.6	6.9	417	303.5	578.5
Sanpete	467	235.9	165.8	127	64.2	45.1	1	0.5	0.4	595	300.6	211.2
Rich	96	208.2	421.8	39	84.6	171.4	0	0.0	0.0	135	292.8	593.1
Uintah	933	236.7	280.1	177	44.9	53.1	7	1.8	2.1	1,117	283.4	335.3
Garfield	221	205.6	429.2	63	58.6	122.4	3	2.8	5.8	287	267.0	557.4
Tooele	1,756	215.6	297.0	397	48.7	67.1	10	1.2	1.7	2,163	265.6	365.8
Sevier	667	208.6	319.1	173	54.1	82.8	5	1.6	2.4	845	264.3	404.2
Box Elder	1,895	215.0	375.5	399	45.3	79.1	9	1.0	1.8	2,303	261.3	456.3
Iron	1,313	190.5	280.8	387	56.2	82.8	10	1.5	2.1	1,710	248.1	365.6
Morgan	222	172.9	229.6	60	46.7	62.1	4	3.1	4.1	286	222.7	295.8
Beaver	456	180.8	689.3	103	40.8	155.7	1	0.4	1.5	560	222.1	846.6
Juab	539	138.7	522.1	175	45.0	169.5	5	1.3	4.8	719	185.1	696.5
Piute	31	110.5	200.8	15	53.5	97.2	1	3.6	6.5	47	167.5	304.4
Emery	413	131.5	375.6	87	27.7	79.1	5	1.6	4.5	505	160.8	459.2
Grand	342	106.7	366.9	135	42.1	144.8	1	0.3	1.1	478	149.2	512.8
Millard	470	103.2	373.3	166	36.4	131.8	3	0.7	2.4	639	140.3	507.5
Daggett	30	94.1	269.1	13	40.8	116.6	0	0.0	0.0	43	134.9	385.7
San Juan	302	105.1	202.0	77	26.8	51.5	7	2.4	4.7	386	134.4	258.1
Wayne	42	90.9	153.2	20	43.3	72.9	0	0.0	0.0	62	134.2	226.1
Statewide	106,526	405.7	378.6	22,325	85.0	79.3	243	0.9	0.9	129,094	491.7	458.8

- 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:
 - Utah (646.8), Salt Lake (628.3), and Weber (625.7) counties had the highest rates of total persons in crashes per 100 million vehicle miles traveled.
 - Duchesne (4.2), Kane (3.6), and Piute (3.6) counties had the highest rates of persons killed per 100 million vehicle miles traveled.
- Rate per 10,000 population:
 - Beaver (846.6), Juab (696.5), and Summit (594.8) counties had the highest rates of total persons in crashes per 10,000 population.
 - Kane (6.9), Piute (6.5) and Garfield (5.8) counties had the highest rates of persons killed per 10,000 population.

Counties



Counties

County Crash Comparison (Utah 2011)

County Crash Comparison												
County	Fatal Crash Rate per VMT Rank	Overall Crash Rate per VMT Rank	Percent of Crash Occupants Unrestrained Rank	Drunk Driving Crash Rate per VMT Rank	Speed Crash Rate per VMT Rank	Distracted Driver Crash Rate per VMT Rank	Teen Driver Crash Rate per VMT Rank	Senior Driver Crash Rate per VMT Rank	Motorcycle Crash Rate per VMT Rank	Pedestrian Crash Rate per Pop. Rank	Bicyclist Crash Rate per Pop. Rank	Total County Highway Safety Ranking
Duchesne	1	3	7	2	5	6	7	10	6	8	21	6.9
Weber	11	4	17	5	14	4	3	1	7	6	8	7.3
Salt Lake	18	2	24	3	9	3	4	5	14	2	1	7.7
Utah	23	1	27	17	2	1	2	2	10	10	4	9.0
Carbon	5	6	12	13	22	10	9	4	16	1	5	9.4
Cache	24	5	28	14	11	2	1	7	11	12	2	10.6
Garfield	3	14	10	6	20	24	22	3	3	4	23	12.0
Wasatch	17	7	23	11	1	19	11	13	8	18	6	12.2
Uintah	9	13	9	7	15	12	12	17	12	20	13	12.6
Rich	27	9	21	4	4	8	10	21	1	22	23	13.6
Summit	16	12	20	8	6	14	17	18	24	5	14	14.0
Davis	21	8	25	20	21	5	6	9	21	13	7	14.2
Sanpete	22	10	3	16	18	7	5	11	25	22	19	14.4
Sevier	8	15	5	28	3	17	19	12	13	17	22	14.5
Tooele	14	17	22	12	19	11	13	15	17	9	10	14.5
Piute	2	21	1	9	10	15	14	23	20	22	23	14.5
Washington	20	16	26	15	26	9	8	6	9	16	9	14.5
Morgan	4	18	19	10	8	22	16	19	4	19	23	14.7
Kane	6	11	14	21	16	13	28	8	15	22	12	15.1
Iron	10	20	11	24	12	16	15	20	18	14	15	15.9
Box Elder	15	19	16	23	17	18	18	14	28	3	18	17.2
San Juan	7	26	2	22	28	21	25	22	19	21	20	19.4
Grand	26	27	6	19	29	23	27	26	23	7	3	19.6
Beaver	25	22	8	25	7	25	20	24	29	22	11	19.8
Emery	13	25	4	26	25	29	23	25	22	11	16	19.9
Wayne	27	23	13	18	24	27	26	27	2	22	23	21.1
Juab	12	24	18	29	23	28	21	16	26	15	23	21.4
Daggett	27	29	29	1	27	20	29	29	5	22	23	21.9
Millard	19	28	15	27	13	26	24	28	27	22	17	22.4
Note:	Rank 1-17 Above State Avg.	Rank 1-5 Above State Avg.	Rank 1-23 Above State Avg.	Rank 1-12 Above State Avg.	Rank 1-10 Above State Avg.	Rank 1-7 Above State Avg.	Rank 1-7 Above State Avg.	Rank 1-8 Above State Avg.	Rank 1-14 Above State Avg.	Rank 1-7 Above State Avg.	Rank 1-4 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 lowest (or worst) ranking and 29 being the highest (or 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. To arrive at an overall ranking, the rankings within the eleven different categories were added together and divided by eleven.

- Duchesne, Weber, and Salt Lake Counties were the worst overall counties. Duchesne County was above the state average in eight of the eleven categories.
- Millard, Daggett, and Juab Counties were the best overall counties. Millard County was below the state average in every category except one.
- In 2010, Duchesne was the worst county and Piute was the best.

Cities

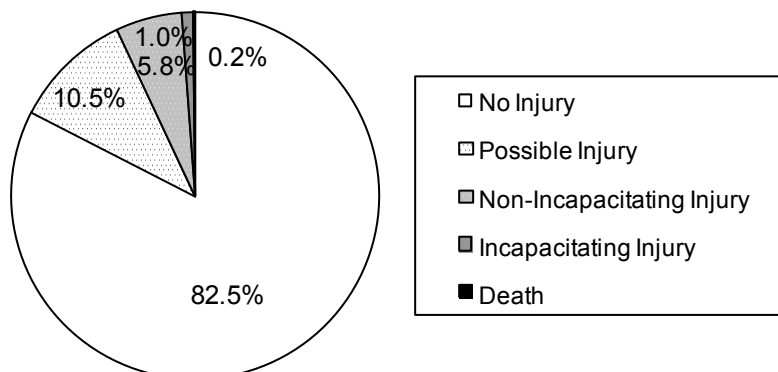
Crashes by City (Utah 2011)

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	53	Marriot-Slaterville	1,701	133	781.9	48	31	Magna	26,505	382	144.1
2	56	Willard	1,772	130	733.6	49	14	Layton	67,311	969	144.0
3	69	Uintah	1,322	77	582.5	50	18	South Jordan	50,418	720	142.8
4	34	Park City	7,547	369	488.9	51	71	Sunset	5,122	73	142.5
5	4	Murray	46,746	2,188	468.1	52	42	Payson	18,294	259	141.6
6	13	South Salt Lake	23,617	1,098	464.9	53	59	Tremonton	7,647	106	138.6
7	33	Riverdale	8,426	371	440.3	54	73	Moab	5,046	68	134.8
8	30	Lindon	10,070	400	397.2	55	68	Ephraim	6,135	82	133.7
9	40	Price	8,715	295	338.5	56	32	Cedar City	28,857	381	132.0
10	15	Midvale	27,964	917	327.9	57	43	Brigham City	17,899	235	131.3
11	2	Orem	88,328	2,893	327.5	58	62	Richfield	7,551	98	129.8
12	9	Draper	40,532	1,296	319.7	59	51	Heber	11,362	147	129.4
13	46	Roosevelt	6,046	193	319.2	60	10	West Jordan	103,712	1,285	123.9
14	7	Taylorsville	58,652	1,837	313.2	61	57	West Haven	10,272	123	119.7
15	52	West Bountiful	5,265	136	258.3	62	20	Millcreek	62,139	696	112.0
16	11	Logan	48,174	1,234	256.2	63	45	Washington	18,761	208	110.9
17	44	Vernal	9,089	224	246.5	64	29	Riverton	38,753	423	109.2
18	5	Sandy	87,461	2,123	242.7	65	35	Pleasant Grove	33,509	363	108.3
19	19	Springville	29,466	710	241.0	66	41	Kaysville	27,300	295	108.1
20	23	American Fork	26,263	594	226.2	67	77	South Weber	6,051	59	97.5
21	1	Salt Lake City	186,440	4,210	225.8	68	65	Santaquin	9,128	89	97.5
22	54	Farr West	5,928	132	222.7	69	47	Saratoga Springs	17,781	170	95.6
23	36	Centerville	15,335	341	222.4	70	74	Pleasant View	7,979	68	85.2
24	38	North Salt Lake	16,322	326	199.7	71	76	Hyrum	7,609	62	81.5
25	70	Morgan	3,687	73	198.0	72	72	Grantsville	8,893	70	78.7
26	21	Spanish Fork	34,691	683	196.9	73	48	Herriman	21,785	160	73.4
27	39	South Ogden	16,532	324	196.0	74	64	Hurricane	13,748	96	69.8
28	49	North Logan	8,269	155	187.4	75	60	Highland	15,523	102	65.7
29	3	West Valley City	129,480	2,402	185.5	76	83	Providence	7,075	41	58.0
30	8	Ogden	82,825	1,533	185.1	77	80	Smithfield	9,495	54	56.9
31	37	Farmington	18,275	338	185.0	78	87	Plain City	5,476	31	56.6
32	16	Bountiful	42,552	767	180.3	79	63	North Ogden	17,357	97	55.9
33	28	Holladay	26,472	466	176.0	80	88	Nibley	5,438	28	51.5
34	24	Clearfield	30,112	530	176.0	81	84	Salem	6,423	33	51.4
35	55	Bluffdale	7,598	131	172.4	82	61	Clinton	20,426	102	49.9
36	22	Roy	36,884	627	170.0	83	58	Syracuse	24,331	117	48.1
37	6	Provo	112,488	1,900	168.9	84	81	Washington Terrace	9,067	43	47.4
38	79	Wellsville	3,432	56	163.2	85	86	Hooper	7,218	32	44.3
39	26	Tooele	31,605	512	162.0	86	82	West Point	9,511	42	44.2
40	17	Lehi	47,407	731	154.2	87	90	Santa Clara	6,003	25	41.6
41	67	Nephi	5,389	82	152.2	88	85	Mapleton	7,979	33	41.4
42	50	Woods Cross	9,761	148	151.6	89	89	Alpine	9,555	28	29.3
43	12	St. George	72,897	1,099	150.8	90	91	Ivins	6,753	18	26.7
44	66	Harrisville	5,567	83	149.1	91	78	Eagle Mountain	21,415	57	26.6
45	27	Cottonwood Heights	33,433	497	148.7	92	92	Enoch	5,803	15	25.8
46	75	Perry	4,512	67	148.5	93	93	Cedar Hills	9,796	11	11.2
47	25	Kearns	35,731	515	144.1			Total	2,404,991	44,542	185.2

- The above table only includes cities with a population of 5,000+ or 50+ crashes.
- The ten cities with the highest rates of total crashes per population were Marriot-Slaterville, Willard, Uintah, Park City, Murray, South Salt Lake, Riverdale, Lindon, Price, and Midvale.
- The ten cities with the highest total number of crashes were Salt Lake City, Orem, West Valley City, Murray, Sandy, Provo, Taylorsville, Ogden, Draper, and West Jordan.
- Bountiful (+51), Ephraim (+40), Tooele (+30), and Orem (+28) had the highest increase in rankings from 2010.
- Sunset (-32) had the highest decrease in rankings from 2010.

Persons Involved

Injury Severity (Utah 2011)



- Although many people were injured and killed in motor vehicle crashes, the majority (82.5%) 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 2011)

Persons								
Person Placement	Non-Injured		Injured		Killed		Total	
	#	%	#	%	#	%	#	%
Driver	77,123	72.4%	14,728	66.0%	150	61.7%	92,001	71.3%
Passenger	29,234	27.4%	6,080	27.2%	56	23.0%	35,370	27.4%
Pedestrian	84	0.1%	770	3.4%	32	13.2%	886	0.7%
Bicyclist	85	0.1%	747	3.3%	5	2.1%	837	0.6%
Total	106,526	100.0%	22,325	100.0%	243	100.0%	129,094	100.0%

- Pedestrians in a crash had the greatest risk of being killed. In fact, pedestrian crashes were 10.8 times more likely to be fatal than other crashes.

Gender of Persons in Crashes (Utah 2011)

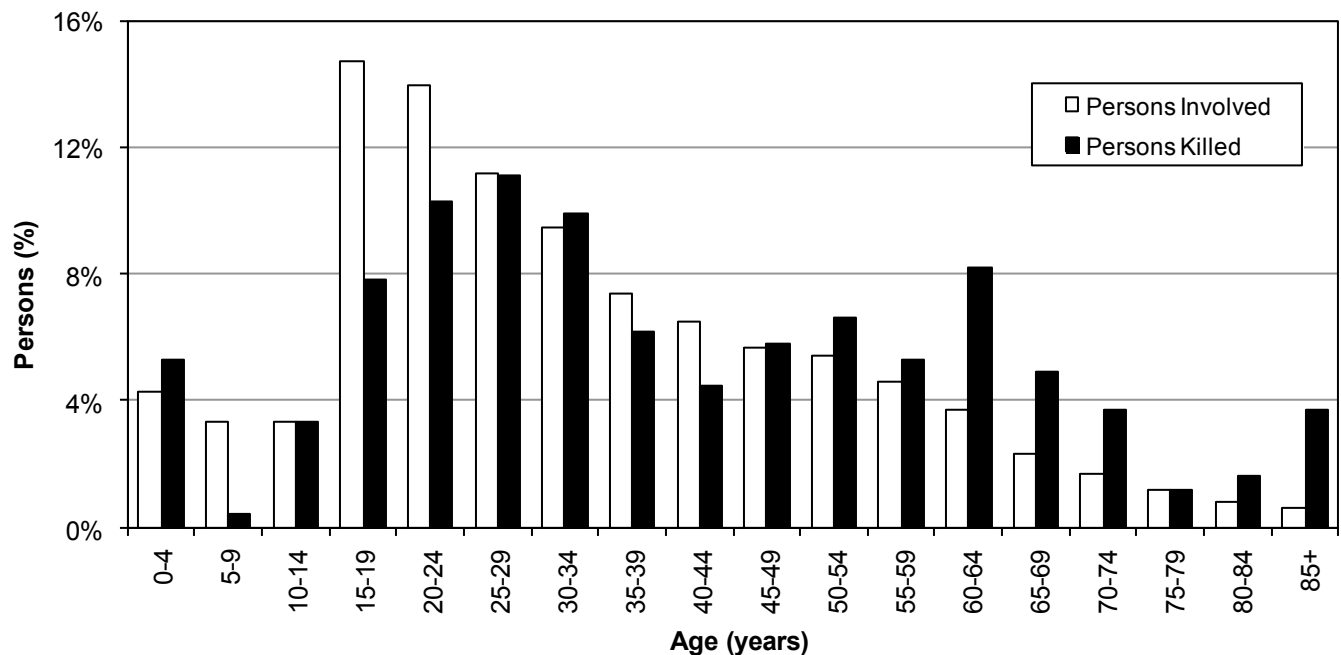
Persons								
Gender	Non-Injured		Injured		Killed		Total	
	#	%	#	%	#	%	#	%
Male	56,651	53.2%	10,473	46.9%	171	70.4%	67,295	52.1%
Female	45,893	43.1%	11,623	52.1%	72	29.6%	57,588	44.6%
Unknown	3,982	3.7%	229	1.0%	0	0.0%	4,211	3.3%
Total	106,526	100.0%	22,325	100.0%	243	100.0%	129,094	100.0%

- Males comprised over half (52.1%) of all persons in crashes and over two-thirds (70.4%) of deaths, while females sustained more injuries (52.1%) than males.
- Males were 2.0 times more likely to die than females in a crash.

Persons Involved

Age of Persons in Crashes (Utah 2011)

Age	Persons							
	Non-Injured		Injured		Killed		Total	
	#	%	#	%	#	%	#	%
0-4	4,805	4.5%	521	2.3%	13	5.3%	5,339	4.1%
5-9	3,366	3.2%	653	2.9%	1	0.4%	4,020	3.1%
10-14	3,195	3.0%	862	3.9%	8	3.3%	4,065	3.1%
15-19	15,101	14.2%	2,946	13.2%	19	7.8%	18,066	14.0%
20-24	14,011	13.2%	3,130	14.0%	25	10.3%	17,166	13.3%
25-29	11,220	10.5%	2,467	11.1%	27	11.1%	13,714	10.6%
30-34	9,534	8.9%	2,135	9.6%	24	9.9%	11,693	9.1%
35-39	7,498	7.0%	1,630	7.3%	15	6.2%	9,143	7.1%
40-44	6,482	6.1%	1,489	6.7%	11	4.5%	7,982	6.2%
45-49	5,641	5.3%	1,311	5.9%	14	5.8%	6,966	5.4%
50-54	5,429	5.1%	1,228	5.5%	16	6.6%	6,673	5.2%
55-59	4,521	4.2%	1,082	4.8%	13	5.3%	5,616	4.4%
60-64	3,639	3.4%	835	3.7%	20	8.2%	4,494	3.5%
65-69	2,292	2.2%	516	2.3%	12	4.9%	2,820	2.2%
70-74	1,650	1.5%	369	1.7%	9	3.7%	2,028	1.6%
75-79	1,165	1.1%	246	1.1%	3	1.2%	1,414	1.1%
80-84	754	0.7%	195	0.9%	4	1.6%	953	0.7%
85+	521	0.5%	160	0.7%	9	3.7%	690	0.5%
Unknown	5,702	5.4%	550	2.5%	0	0.0%	6,252	4.8%
Total	106,526	100.0%	22,325	100.0%	243	100.0%	129,094	100.0%



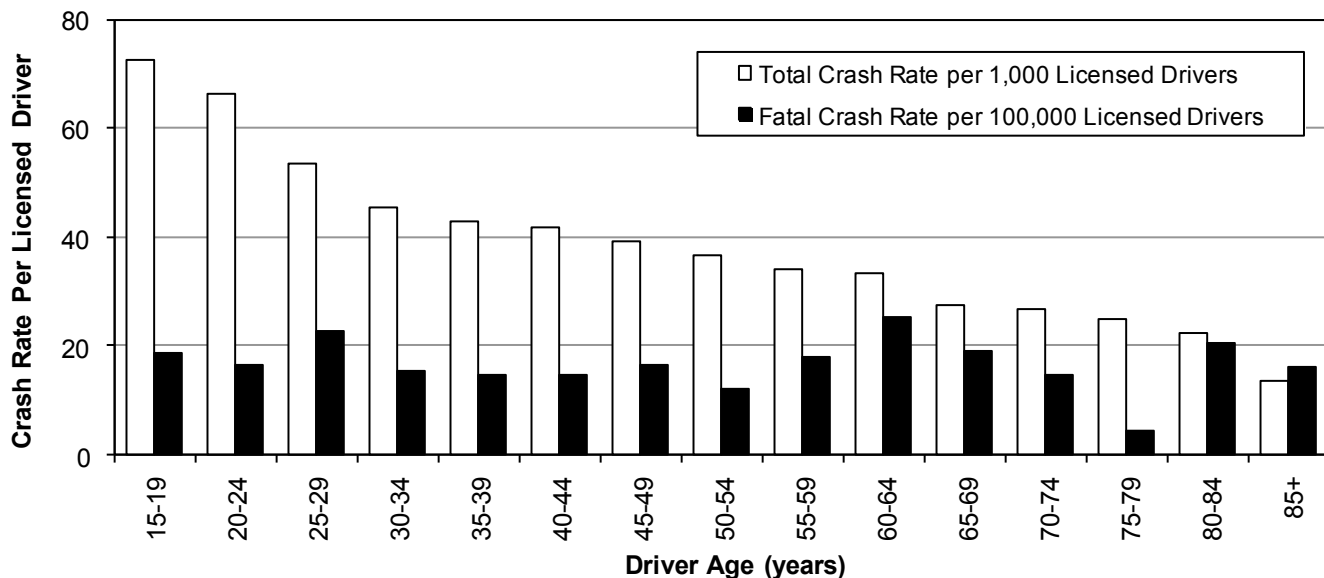
- The largest proportion of persons in crashes were aged 15-29 years (39.8% of known).
- The largest proportion of persons killed were aged 20-34 years (31.3%).
- The average age of a person in a crash was 33 years. The average age of a person killed was 40 years.
- While persons aged 65 years and older represented a small proportion of the persons in crashes (6.4% of known), they were 2.6 times more likely than all other age groups to die.

Drivers

Driver Age (Utah 2011)

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	26	0.0%	n/a	52	0.2%	n/a	1	0.3%	n/a	79	0.1%	n/a
15-19	8,030	12.8%	50.3	3,511	12.2%	22.0	30	8.7%	0.19	11,571	12.6%	72.5
20-24	9,095	14.5%	44.9	4,300	15.0%	21.2	33	9.6%	0.16	13,428	14.6%	66.3
25-29	7,797	12.4%	36.4	3,597	12.5%	16.8	49	14.3%	0.23	11,443	12.4%	53.5
30-34	6,768	10.8%	30.9	3,186	11.1%	14.5	34	9.9%	0.16	9,988	10.9%	45.6
35-39	5,350	8.5%	29.0	2,519	8.8%	13.7	27	7.9%	0.15	7,896	8.6%	42.8
40-44	4,587	7.3%	27.9	2,296	8.0%	13.9	24	7.0%	0.15	6,907	7.5%	41.9
45-49	4,029	6.4%	26.4	1,910	6.7%	12.5	25	7.3%	0.16	5,964	6.5%	39.1
50-54	3,901	6.2%	25.0	1,785	6.2%	11.4	19	5.5%	0.12	5,705	6.2%	36.5
55-59	3,233	5.1%	23.0	1,520	5.3%	10.8	25	7.3%	0.18	4,778	5.2%	34.0
60-64	2,605	4.1%	22.7	1,180	4.1%	10.3	29	8.5%	0.25	3,814	4.1%	33.2
65-69	1,586	2.5%	18.8	708	2.5%	8.4	16	4.7%	0.19	2,310	2.5%	27.4
70-74	1,101	1.7%	18.1	512	1.8%	8.4	9	2.6%	0.15	1,622	1.8%	26.7
75-79	774	1.2%	17.0	357	1.2%	7.8	2	0.6%	0.04	1,133	1.2%	24.9
80-84	496	0.8%	14.5	264	0.9%	7.7	7	2.0%	0.20	767	0.8%	22.4
85+	336	0.5%	9.0	172	0.6%	4.6	6	1.7%	0.16	514	0.6%	13.7
Unknown	3,227	5.1%	n/a	848	3.0%	n/a	7	2.0%	n/a	4,082	4.4%	n/a
Total	62,941	100.0%	31.9	28,717	100.0%	14.6	343	100.0%	0.17	92,001	100.0%	46.7

Crash Rate of Licensed Drivers by Age (Utah 2011)



- Drivers aged 15-19 years had the highest rates per licensed driver of total crashes, injury crashes, and property damage only crashes. Drivers aged 60-64 years had the highest rates per driver of fatal crashes.
- Drivers aged 85+ years had the lowest rate per licensed driver of total crashes (13.7).
- Drivers aged 75-79 years had the lowest rate per licensed driver of fatal crashes (0.04).
- The average age of a driver was 37 years. The average age of a driver in a fatal crash was 42 years.

Drivers

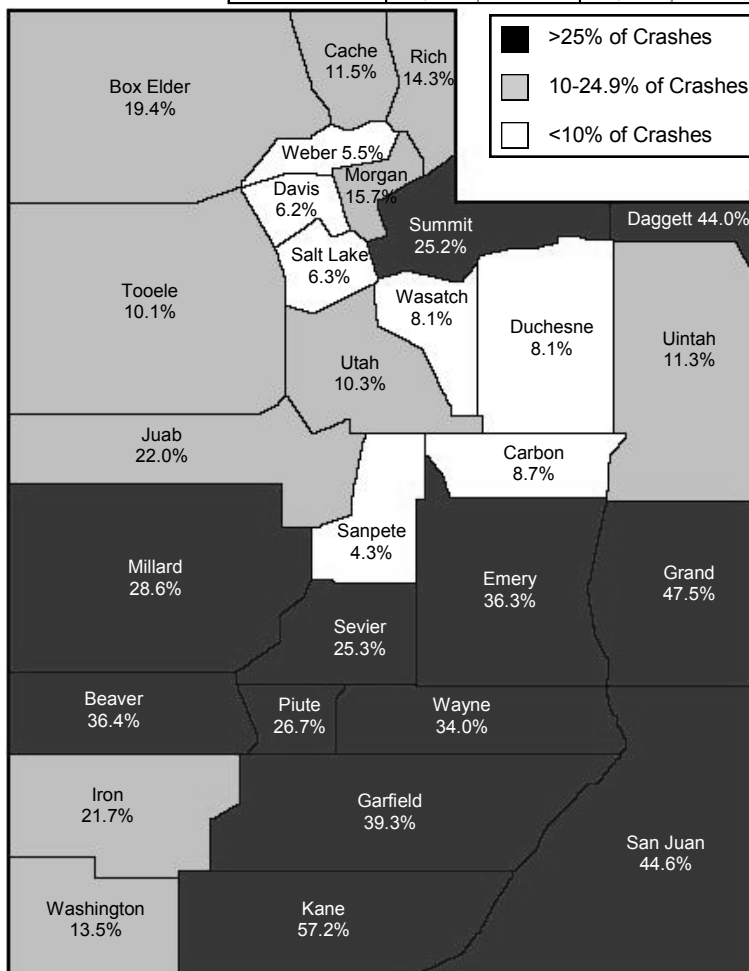
Driver Gender (Utah 2011)

Drivers												
Gender	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	34,692	55.1%	34.2	15,305	53.3%	15.1	238	69.4%	0.23	50,235	54.6%	49.6
Female	25,469	40.5%	26.6	12,814	44.6%	13.4	99	28.9%	0.10	38,382	41.7%	40.1
Unknown	2,780	4.4%	n/a	598	2.1%	n/a	6	1.7%	n/a	3,384	3.7%	n/a
Total	62,941	100.0%	31.9	28,717	100.0%	14.6	343	100.0%	0.17	92,001	100.0%	46.7

- Males represented 55.4% of all drivers in a crash and 66.4% 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. Male drivers were 1.5 times more likely to be in a fatal crash than female drivers.

Out-of-State Drivers (Utah 2011)

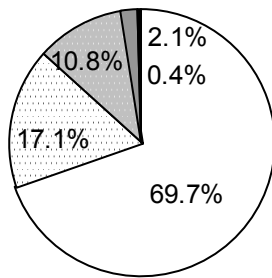
Drivers								
License State	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Utah	53,205	84.5%	25,047	87.2%	287	83.7%	78,539	85.4%
Out-Of-State	5,718	9.1%	2,321	8.1%	49	14.3%	8,088	8.8%
Unknown	4,018	6.4%	1,349	4.7%	7	2.0%	5,374	5.8%
Total	62,941	100.0%	28,717	100.0%	343	100.0%	92,001	100.0%



- Although out-of-state licensed drivers represented 8.8% of all drivers in crashes, they represented 14.3% 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 (57.2%), Grand (47.5%), San Juan (44.6%), and Daggett (44.0%) Counties where 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

Crash Severity (Utah 2011)



- ☐ No Injury
- ☐ Possible Injury
- ☐ Non-Incapacitating Injury
- ☐ Incapacitating Injury
- ☐ Death

- For crashes that occurred in Utah during 2011, 69.7% resulted in property damage only, 29.9% resulted in some level of injury, and 0.4% involved a death.

Month (Utah 2011)

Crashes									
Month	# of Days	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
		#	Rate per Day	#	Rate per Day	#	Rate per Day	#	Rate per Day
January	31	3,378	109.0	1,243	40.1	15	0.48	4,636	149.5
February	28	2,888	103.1	992	35.4	8	0.29	3,888	138.9
March	31	2,875	92.7	1,212	39.1	19	0.61	4,106	132.5
April	30	2,738	91.3	1,226	40.9	14	0.47	3,978	132.6
May	31	2,838	91.5	1,277	41.2	11	0.35	4,126	133.1
June	30	2,679	89.3	1,271	42.4	25	0.83	3,975	132.5
July	31	2,825	91.1	1,359	43.8	21	0.68	4,205	135.6
August	31	2,940	94.8	1,476	47.6	28	0.90	4,444	143.4
September	30	3,034	101.1	1,530	51.0	28	0.93	4,592	153.1
October	31	3,245	104.7	1,441	46.5	19	0.61	4,705	151.8
November	30	3,209	107.0	1,265	42.2	15	0.50	4,489	149.6
December	31	3,769	121.6	1,353	43.6	21	0.68	5,143	165.9
Total	365	36,418	99.8	15,645	42.9	224	0.61	52,287	143.3

- Total crash rates per day were highest in December and September.
- The highest rates per day for fatal crashes occurred during September and August.

Day of Week (Utah 2011)

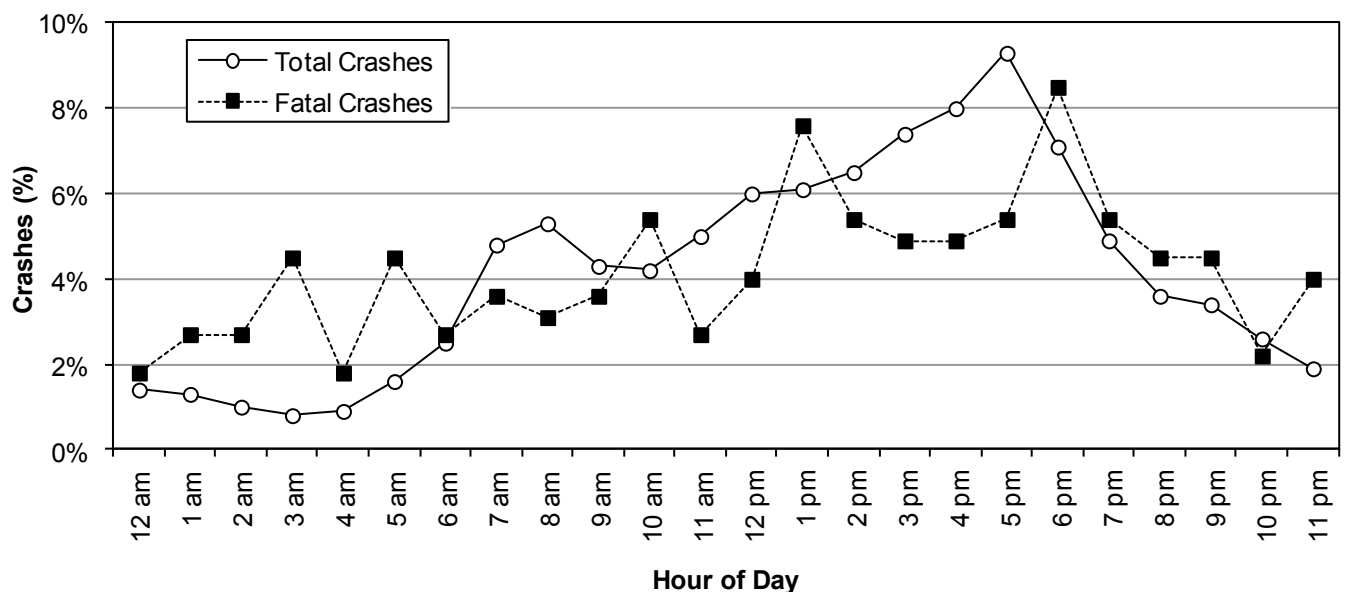
Crashes								
Day of Week	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Sunday	3,112	8.5%	1,312	8.4%	24	10.7%	4,448	8.5%
Monday	5,374	14.8%	2,318	14.8%	24	10.7%	7,716	14.8%
Tuesday	5,882	16.2%	2,488	15.9%	31	13.8%	8,401	16.1%
Wednesday	5,395	14.8%	2,341	15.0%	31	13.8%	7,767	14.9%
Thursday	5,757	15.8%	2,408	15.4%	32	14.3%	8,197	15.7%
Friday	6,050	16.6%	2,556	16.3%	36	16.1%	8,642	16.5%
Saturday	4,848	13.3%	2,222	14.2%	46	20.5%	7,116	13.6%
Total	36,418	100.0%	15,645	100.0%	224	100.0%	52,287	100.0%

- The highest percentage of total crashes occurred on Friday (16.5%) and Tuesday (16.1%).
- The highest percentage of fatal crashes occurred on Saturday (20.5%) and Friday (16.1%).
- Crashes on the weekend were 1.6 times more likely to be fatal than weekday crashes.

Crash Conditions

Hour (Utah 2011)

Hour	Crashes							
	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Midnight	533	1.5%	203	1.3%	4	1.8%	740	1.4%
1 a.m.	468	1.3%	209	1.3%	6	2.7%	683	1.3%
2 a.m.	356	1.0%	156	1.0%	6	2.7%	518	1.0%
3 a.m.	306	0.8%	106	0.7%	10	4.5%	422	0.8%
4 a.m.	328	0.9%	113	0.7%	4	1.8%	445	0.9%
5 a.m.	616	1.7%	212	1.4%	10	4.5%	838	1.6%
6 a.m.	935	2.6%	344	2.2%	6	2.7%	1,285	2.5%
7 a.m.	1,773	4.9%	733	4.7%	8	3.6%	2,514	4.8%
8 a.m.	1,953	5.4%	803	5.1%	7	3.1%	2,763	5.3%
9 a.m.	1,612	4.4%	651	4.2%	8	3.6%	2,271	4.3%
10 a.m.	1,531	4.2%	679	4.3%	12	5.4%	2,222	4.2%
11 a.m.	1,853	5.1%	766	4.9%	6	2.7%	2,625	5.0%
Noon	2,152	5.9%	958	6.1%	9	4.0%	3,119	6.0%
1 p.m.	2,202	6.0%	945	6.0%	17	7.6%	3,164	6.1%
2 p.m.	2,340	6.4%	1,065	6.8%	12	5.4%	3,417	6.5%
3 p.m.	2,681	7.4%	1,193	7.6%	11	4.9%	3,885	7.4%
4 p.m.	2,875	7.9%	1,289	8.2%	11	4.9%	4,175	8.0%
5 p.m.	3,296	9.1%	1,574	10.1%	12	5.4%	4,882	9.3%
6 p.m.	2,604	7.2%	1,115	7.1%	19	8.5%	3,738	7.1%
7 p.m.	1,729	4.7%	810	5.2%	12	5.4%	2,551	4.9%
8 p.m.	1,320	3.6%	557	3.6%	10	4.5%	1,887	3.6%
9 p.m.	1,285	3.5%	493	3.2%	10	4.5%	1,788	3.4%
10 p.m.	948	2.6%	416	2.7%	5	2.2%	1,369	2.6%
11 p.m.	722	2.0%	255	1.6%	9	4.0%	986	1.9%
Total	36,418	100.0%	15,645	100.0%	224	100.0%	52,287	100.0%



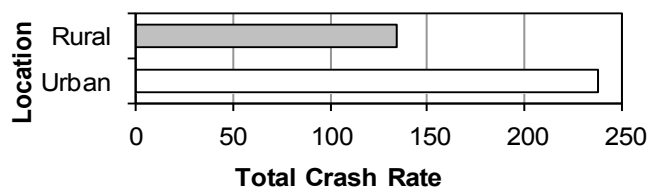
- Total crashes were more likely to occur between 2:00 p.m. and 6:59 p.m., with a peak at 5:00 p.m.
- Fatal crashes were highest during the 6:00 p.m. hour.

Crash Conditions

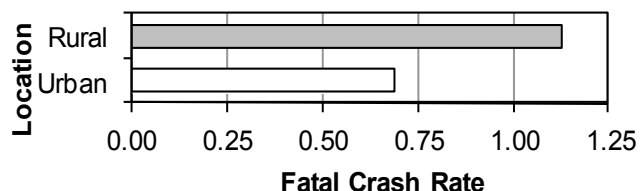
Urban/Rural Location (Utah 2011)

Crashes								
Location	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	27,090	163.5	12,170	73.4	115	0.69	39,375	237.6
Rural	9,328	96.7	3,475	36.0	109	1.13	12,912	133.8
Total	36,418	138.9	15,645	59.7	224	0.85	52,287	199.4

Total Crash Rates (Utah 2011)



Fatal Crash Rates (Utah 2011)



- While urban areas had a higher rate of total crashes per vehicle mile traveled, rural areas had a higher rate of fatal crashes per vehicle mile traveled.
- Crashes occurring in rural areas were 2.9 times more likely to result in a death than crashes in urban areas.

Road Surface Condition (Utah 2011)

Crashes								
Road Surface Condition	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Dry	28,559	78.4%	12,829	82.0%	191	85.3%	41,579	79.5%
Wet	3,683	10.1%	1,576	10.1%	19	8.5%	5,278	10.1%
Snow/Slush	2,034	5.6%	541	3.5%	5	2.2%	2,580	4.9%
Ice	1,108	3.0%	355	2.3%	3	1.3%	1,466	2.8%
Other	231	0.6%	237	1.5%	4	1.8%	472	0.9%
Unknown	803	2.2%	107	0.7%	2	0.9%	912	1.7%
Total	36,418	100.0%	15,645	100.0%	224	100.0%	52,287	100.0%

- Most (79.5%) crashes occurred when roads were dry.

Light Condition (Utah 2011)

Crashes								
Light Condition	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Daylight	24,786	68.1%	11,176	71.4%	124	55.4%	36,086	69.0%
Dark	9,131	25.1%	3,630	23.2%	86	38.4%	12,847	24.6%
Dawn/Dusk	1,774	4.9%	759	4.9%	13	5.8%	2,546	4.9%
Unknown	727	2.0%	80	0.5%	1	0.4%	808	1.5%
Total	36,418	100.0%	15,645	100.0%	224	100.0%	52,287	100.0%

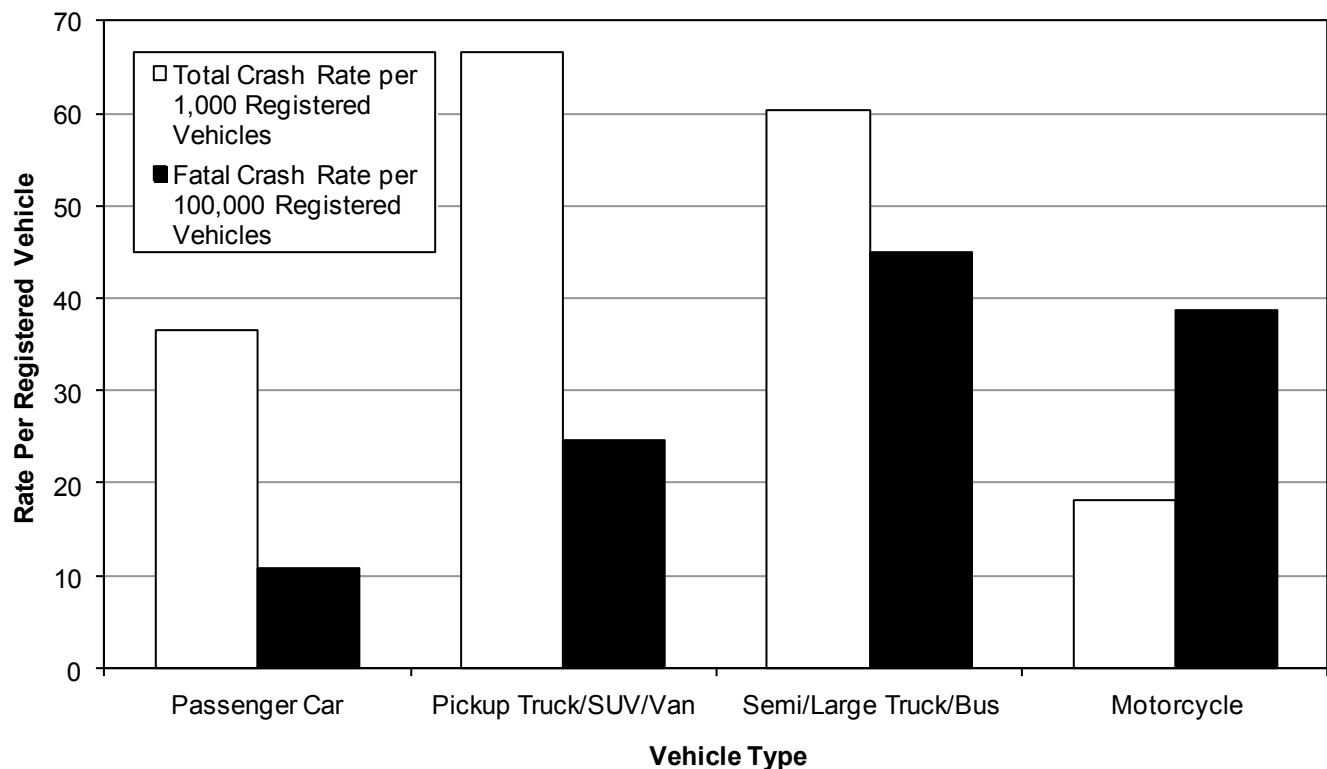
- The majority (69.0%) of crashes occurred during daylight.
- Over one-third (38.4%) of fatal crashes occurred during dark conditions.

Crash Conditions

Vehicle Type (Utah 2011)

Vehicle Type	Vehicles							
	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Passenger Car	33,845	51.5%	15,344	52.6%	144	41.0%	49,333	51.8%
SUV	12,586	19.1%	5,604	19.2%	68	19.4%	18,258	19.2%
Pickup Truck	11,090	16.9%	4,102	14.1%	60	17.1%	15,252	16.0%
Van	3,715	5.6%	1,802	6.2%	16	4.6%	5,533	5.8%
Semi/Large Truck	2,716	4.1%	728	2.5%	26	7.4%	3,470	3.6%
Motorcycle	180	0.3%	1,066	3.7%	27	7.7%	1,273	1.3%
Bus	313	0.5%	92	0.3%	3	0.9%	408	0.4%
Other	90	0.1%	212	0.7%	4	1.1%	306	0.3%
Unknown	1,222	1.9%	214	0.7%	3	0.9%	1,439	1.5%
Total	65,757	100.0%	29,164	100.0%	351	100.0%	95,272	100.0%

Crash Rates by Vehicle Type (Utah 2011)



- 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, semi/large truck may travel more miles per vehicle.
- Passenger car represented 65.2% of registered vehicles in Utah, pickup truck/SUV/van 28.3%, motorcycle 3.4%, and semi/large truck/bus 3.1%.
- For total crashes, passenger car (51.8%) and SUV (19.2%) were the leading vehicle types.
- Pickup truck/SUV/van and semi/large truck/bus had the highest total crash rates per registered vehicle.
- For fatal crashes, passenger car (41.0%) and SUV (19.4%) were the leading vehicle types.
- Semi/large truck/bus and motorcycle had the highest fatal crash rates per registered vehicle.
- While motorcycles represented 1.3% of vehicles in total crashes, they represented 7.7% of vehicles in fatal crashes. Crashes involving a motorcycle were 6.3 times more likely to be fatal than crashes of other vehicles.

Crash Conditions

Vehicle Maneuver Prior to Crash (Utah 2011)

Vehicles								
Vehicle Maneuver	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Straight Ahead	32,413	49.3%	15,776	54.1%	264	75.2%	48,453	50.9%
Stopped in Traffic Lane	7,489	11.4%	4,624	15.9%	19	5.4%	12,132	12.7%
Turning Left	5,317	8.1%	3,218	11.0%	26	7.4%	8,561	9.0%
Slowing in Traffic Lane	3,399	5.2%	1,803	6.2%	5	1.4%	5,207	5.5%
Parked	3,712	5.6%	563	1.9%	11	3.1%	4,286	4.5%
Turning Right	2,955	4.5%	1,123	3.9%	2	0.6%	4,080	4.3%
Backing	2,758	4.2%	158	0.5%	1	0.3%	2,917	3.1%
Changing Lanes	2,085	3.2%	568	1.9%	4	1.1%	2,657	2.8%
Making U-turn	628	1.0%	230	0.8%	1	0.3%	859	0.9%
Entering Traffic Lane	621	0.9%	193	0.7%	1	0.3%	815	0.9%
Overtaking/Passing	478	0.7%	137	0.5%	15	4.3%	630	0.7%
Parking Maneuvers	525	0.8%	33	0.1%	0	0.0%	558	0.6%
Leaving Traffic Lane	187	0.3%	88	0.3%	0	0.0%	275	0.3%
Other	552	0.8%	239	0.8%	1	0.3%	792	0.8%
Unknown	2,638	4.0%	411	1.4%	1	0.3%	3,050	3.2%
Total	65,757	100.0%	29,164	100.0%	351	100.0%	95,272	100.0%

- For total crashes, straight ahead (50.9%), stopped in traffic lane (12.7%), and turning left (9.0%) were the leading vehicle maneuvers prior to the crash.
- For fatal crashes, straight ahead (75.2%), turning left (7.4%), and stopped in traffic lane (5.4%) were the leading vehicle maneuvers prior to the crash.
- Overtaking/passing was one of the deadliest maneuvers to make as crashes were 6.6 times more likely to be fatal compared to other vehicle maneuvers.

Speed Limit (Utah 2011)

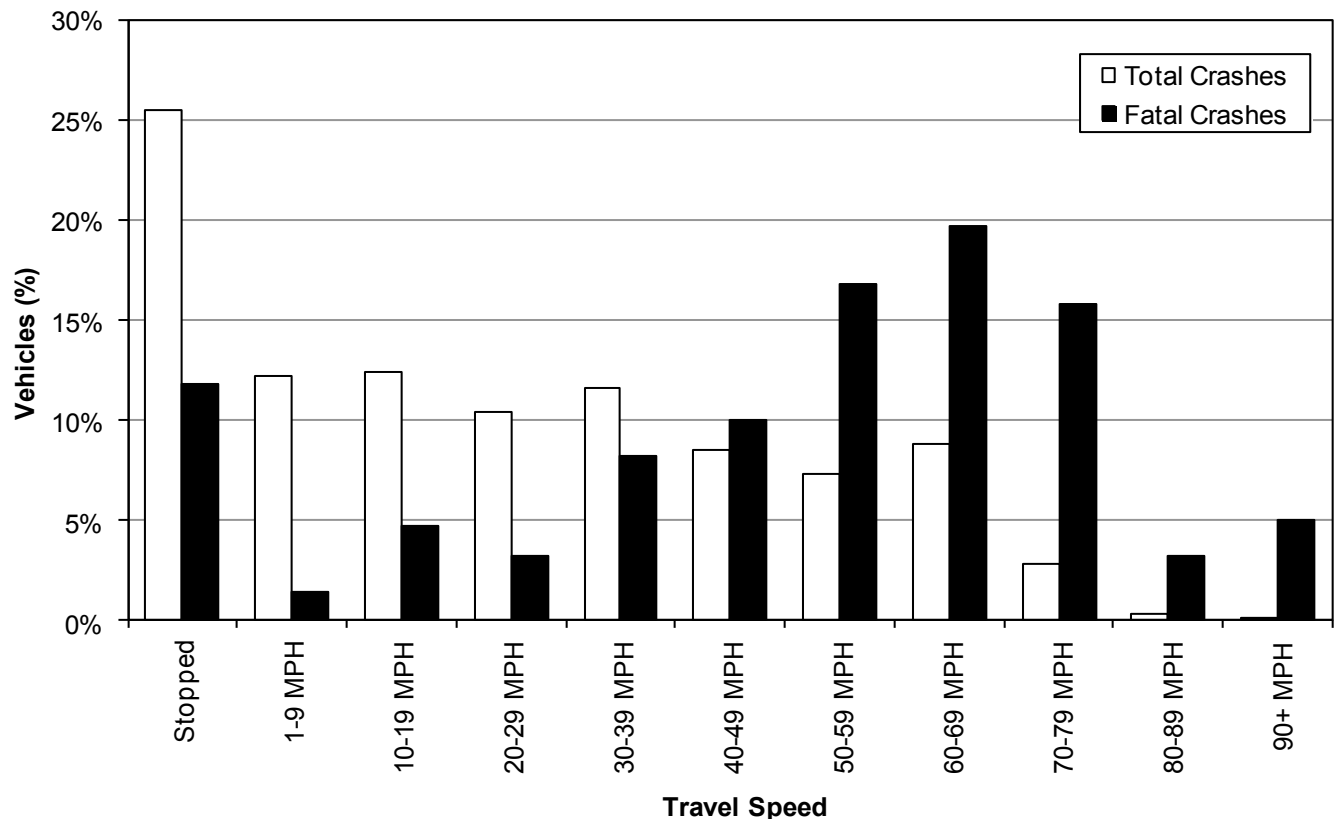
Vehicles								
Speed Limit	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
5-15 MPH	1,806	2.7%	235	0.8%	0	0.0%	2,041	2.1%
20-25 MPH	6,831	10.4%	2,684	9.2%	12	3.4%	9,527	10.0%
30-35 MPH	12,005	18.3%	6,850	23.5%	40	11.4%	18,895	19.8%
40-45 MPH	12,159	18.5%	7,193	24.7%	90	25.6%	19,442	20.4%
50-55 MPH	5,935	9.0%	3,045	10.4%	53	15.1%	9,033	9.5%
60-65 MPH	9,937	15.1%	3,547	12.2%	71	20.2%	13,555	14.2%
70-75 MPH	1,777	2.7%	640	2.2%	50	14.2%	2,467	2.6%
80 MPH	152	0.2%	77	0.3%	4	1.1%	233	0.2%
Unknown/None	15,155	23.0%	4,893	16.8%	31	8.8%	20,079	21.1%
Total	65,757	100.0%	29,164	100.0%	351	100.0%	95,272	100.0%

- The speed limit on the roadway was 30-45 MPH for over half (51.0% 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 (55.6% of known) of the vehicles in fatal crashes.
- Crashes where the speed limit was 50 MPH or higher were 2.5 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 2011)

Travel Speed	Vehicles							
	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Parked	3,712	5.6%	563	1.9%	11	3.1%	4,286	4.5%
Stopped	9,519	14.5%	5,231	17.9%	22	6.3%	14,772	15.5%
1-9 MPH	6,999	10.6%	2,095	7.2%	4	1.1%	9,098	9.5%
10-19 MPH	6,490	9.9%	2,752	9.4%	13	3.7%	9,255	9.7%
20-29 MPH	5,244	8.0%	2,474	8.5%	9	2.6%	7,727	8.1%
30-39 MPH	5,463	8.3%	3,176	10.9%	23	6.6%	8,662	9.1%
40-49 MPH	3,957	6.0%	2,379	8.2%	28	8.0%	6,364	6.7%
50-59 MPH	3,781	5.7%	1,606	5.5%	47	13.4%	5,434	5.7%
60-69 MPH	4,797	7.3%	1,699	5.8%	55	15.7%	6,551	6.9%
70-79 MPH	1,431	2.2%	634	2.2%	44	12.5%	2,109	2.2%
80-89 MPH	115	0.2%	100	0.3%	9	2.6%	224	0.2%
90+ MPH	18	0.0%	29	0.1%	14	4.0%	61	0.1%
Unknown	14,231	21.6%	6,426	22.0%	72	20.5%	20,729	21.8%
Total	65,757	100.0%	29,164	100.0%	351	100.0%	95,272	100.0%



- Nearly half (46.6% where travel speed was known) of vehicles in total crashes were traveling 1-39 MPH.
- Vehicles in fatal crashes were more likely to be traveling at higher speeds. 60.6% (of known) of vehicles in fatal crashes were traveling 50 MPH or higher.
- Crashes involving vehicles traveling 50 MPH or higher were 6.5 times more likely to be fatal.
- 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.

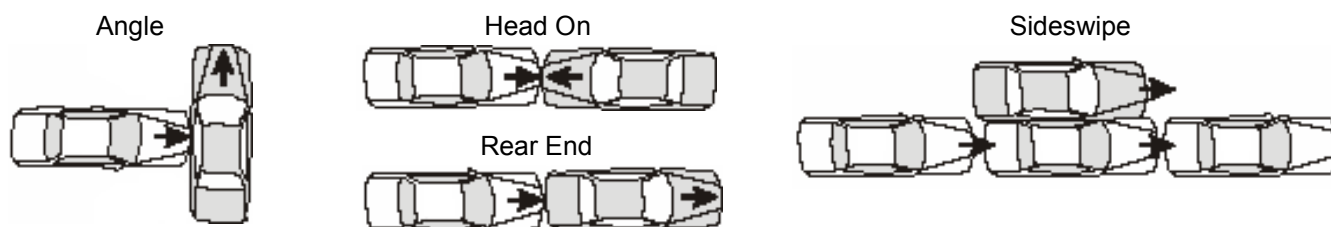
Crash Conditions

First Harmful Event (Utah 2011)

First Harmful Event	Crashes							
	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Collision with Other Motor Vehicle	23,529	64.6%	10,159	64.9%	71	31.7%	33,759	64.6%
Collision with Animal	2,437	6.7%	185	1.2%	1	0.4%	2,623	5.0%
Collision with Parked Vehicle	2,060	5.7%	239	1.5%	3	1.3%	2,302	4.4%
Collision with Concrete/Cable Barrier	1,521	4.2%	542	3.5%	6	2.7%	2,069	4.0%
Overturn/Rollover	572	1.6%	951	6.1%	33	14.7%	1,556	3.0%
Collision with Post, Pole, or Support	1,159	3.2%	376	2.4%	13	5.8%	1,548	3.0%
Collision with Other Non-Fixed Object	1,054	2.9%	224	1.4%	3	1.3%	1,281	2.4%
Collision with Bicyclist	71	0.2%	730	4.7%	5	2.2%	806	1.5%
Collision with Pedestrian	35	0.1%	683	4.4%	31	13.8%	749	1.4%
Collision with Other Fixed Object	551	1.5%	196	1.3%	1	0.4%	748	1.4%
Collision with Fence	563	1.5%	154	1.0%	10	4.5%	727	1.4%
Collision with Embankment	311	0.9%	214	1.4%	15	6.7%	540	1.0%
Collision with Tree/Shrubbery	290	0.8%	184	1.2%	5	2.2%	479	0.9%
Other Non-Collision	262	0.7%	111	0.7%	0	0.0%	373	0.7%
Collision with Guardrail	270	0.7%	88	0.6%	4	1.8%	362	0.7%
Collision with Ditch	204	0.6%	136	0.9%	6	2.7%	346	0.7%
Collision with Mailbox/Fire Hydrant	247	0.7%	61	0.4%	2	0.9%	310	0.6%
Collision with Thrown or Fallen Object	234	0.6%	25	0.2%	0	0.0%	259	0.5%
Collision with Curb	105	0.3%	59	0.4%	5	2.2%	169	0.3%
Fire/Explosion	142	0.4%	2	0.0%	0	0.0%	144	0.3%
Fell/Jumped from Vehicle	10	0.0%	122	0.8%	7	3.1%	139	0.3%
Cargo/Equipment Loss or Shift	118	0.3%	13	0.1%	0	0.0%	131	0.3%
Collision with Crash Cushion	49	0.1%	36	0.2%	0	0.0%	85	0.2%
Jackknife	65	0.2%	12	0.1%	0	0.0%	77	0.1%
Collision with Work Zone/Equipment	50	0.1%	20	0.1%	0	0.0%	70	0.1%
Collision with Train	40	0.1%	9	0.1%	0	0.0%	49	0.1%
Collision with Culvert	24	0.1%	23	0.1%	1	0.4%	48	0.1%
Collision with Bridge	36	0.1%	9	0.1%	2	0.9%	47	0.1%
Immersion	10	0.0%	3	0.0%	0	0.0%	13	0.0%
Unknown	399	1.1%	79	0.5%	0	0.0%	478	0.9%
Total	36,418	100.0%	15,645	100.0%	224	100.0%	52,287	100.0%

- For all crashes, the leading first harmful event was collision with other motor vehicle (64.6%).
- For total crashes, collision with animal (5.0%) and collision with parked vehicle (4.4%) were the next highest first harmful events. See page 50 for more information on collisions with animals.
- For fatal crashes, overturn/rollover (14.7%) and collision with pedestrian (13.8%) were the next highest first harmful events.
- Overturn/rollover was 5.7 times more likely to result in a death than other first harmful events.

Collision Examples



Crash Conditions

Collision Description (Utah 2011)

Crashes								
Collision Description	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Rear End (front-to-rear)	10,447	28.7%	5,097	32.6%	13	5.8%	15,557	29.8%
Single Vehicle	10,301	28.3%	5,040	32.2%	150	67.0%	15,491	29.6%
Angle	7,443	20.4%	3,977	25.4%	37	16.5%	11,457	21.9%
Sideswipe	4,289	11.8%	773	4.9%	7	3.1%	5,069	9.7%
Parked Vehicle	1,919	5.3%	214	1.4%	3	1.3%	2,136	4.1%
Head On (front-to-front)	429	1.2%	440	2.8%	14	6.3%	883	1.7%
Rear to Side/Rear	701	1.9%	37	0.2%	0	0.0%	738	1.4%
Unknown	889	2.4%	67	0.4%	0	0.0%	956	1.8%
Total	36,418	100.0%	15,645	100.0%	224	100.0%	52,287	100.0%

- For all crashes, the leading collision types were rear end (29.8%), single vehicle (29.6%), and angle (21.9%).
- The leading collision types in fatal crashes were single vehicle (67.0%) and angle (16.5%).
- Head on collisions were 3.9 times more likely to result in a death than other collision types.

Number of Vehicles Involved (Utah 2011)

Crashes								
Vehicles Involved	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
1	9,654	26.5%	4,812	30.8%	136	60.7%	14,602	27.9%
2	24,605	67.6%	8,739	55.9%	62	27.7%	33,406	63.9%
3	1,822	5.0%	1,643	10.5%	16	7.1%	3,481	6.7%
4	284	0.8%	357	2.3%	7	3.1%	648	1.2%
5 or more	53	0.1%	94	0.6%	3	1.3%	150	0.3%
Total	36,418	100.0%	15,645	100.0%	224	100.0%	52,287	100.0%

- While the majority (72.1%) of all crashes involved two or more motor vehicles, 60.7% of fatal crashes involved only one motor vehicle.

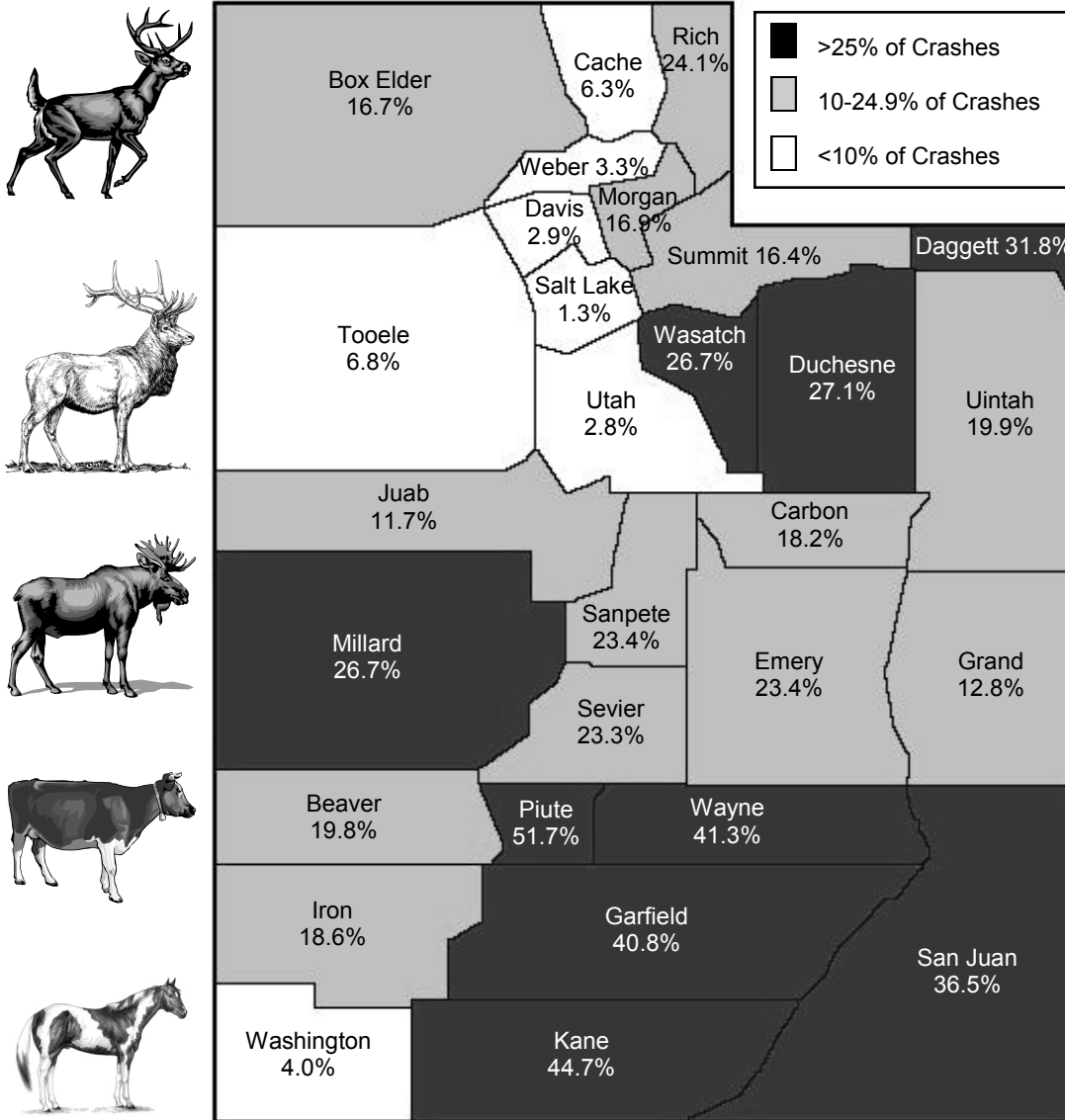
Roadway Junction or Feature (Utah 2011)

Crashes									
Roadway Junction or Feature	PDO Crashes		Injury Crashes		Fatal Crashes		Total		
	#	%	#	%	#	%	#	%	%
None	21,311	58.5%	7,726	49.4%	148	66.1%	29,185	55.8%	
4-Leg Intersection	6,676	18.3%	4,557	29.1%	38	17.0%	11,271	21.6%	
T-Intersection	2,342	6.4%	1,316	8.4%	12	5.4%	3,670	7.0%	
Business/Residential Drive	2,194	6.0%	726	4.6%	6	2.7%	2,926	5.6%	
On-Ramp/Off-Ramp	1,038	2.9%	364	2.3%	8	3.6%	1,410	2.7%	
Bridge (overpass/underpass)	550	1.5%	262	1.7%	8	3.6%	820	1.6%	
On-Ramp Merge/Off-Ramp Diverge Area	560	1.5%	190	1.2%	2	0.9%	752	1.4%	
Other Intersection (Y, 5-Leg, Bike Path, Ramp w/ Crossroad)	249	0.7%	160	1.0%	2	0.9%	411	0.8%	
Roundabout	120	0.3%	43	0.3%	0	0.0%	163	0.3%	
Other	792	2.2%	216	1.4%	0	0.0%	1,008	1.9%	
Unknown	586	1.6%	85	0.5%	0	0.0%	671	1.3%	
Total	36,418	100.0%	15,645	100.0%	224	100.0%	52,287	100.0%	

- While the majority (55.8%) of all crashes occurred on a roadway with no junction or feature, 29.7% of crashes occurred at an intersection.

Crash Conditions

Percent of Crashes Involving Animals by County (Utah 2011)



- There were 2,829 collisions involving animals, 2,311 (81.7%) involved hitting a wild animal, 337 (11.9%) involved hitting a domestic animal, and 181 (6.4%) involved an unharmed animal causing evasive action.
- Piute (51.7%) and Kane (44.7%) Counties had the highest percent of crashes involving an animal.

Roadway Contributing Circumstances (Utah 2011)

Roadway Contributing Circumstances	Crashes							
	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
None	30,480	83.7%	13,519	86.4%	182	81.3%	44,181	84.5%
Road Surface Condition (Wet/Icy/Snow/Etc.)	2,726	7.5%	943	6.0%	14	6.3%	3,683	7.0%
Work Zone	492	1.4%	239	1.5%	2	0.9%	733	1.4%
Debris	489	1.3%	115	0.7%	1	0.4%	605	1.2%
Animal/Non-Contact Veh/Ped/Bike Caused Evasive Action	301	0.8%	224	1.4%	9	4.0%	534	1.0%
Hole/Bump/Worn Surface/Shoulder/Traffic Control Device	157	0.4%	128	0.8%	3	1.3%	288	0.6%
Other	192	0.5%	117	0.7%	4	1.8%	313	0.6%
Unknown	1,581	4.3%	360	2.3%	9	4.0%	1,950	3.7%
Total	36,418	100.0%	15,645	100.0%	224	100.0%	52,287	100.0%

- 12.2% of crashes had a roadway contributing circumstance, where known.

Crash Conditions

Violations (Utah 2011)

Violations	Drivers							
	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Following Too Close	3,933	18.2%	1,957	16.3%	1	1.2%	5,891	17.5%
Improper Lane Change/Travel	2,819	13.0%	1,043	8.7%	2	2.4%	3,864	11.5%
Improper Lookout	1,808	8.4%	965	8.0%	0	0.0%	2,773	8.2%
Failure to Yield Right of Way	1,567	7.2%	1,132	9.4%	3	3.6%	2,702	8.0%
Negligent Collision	1,721	7.9%	864	7.2%	0	0.0%	2,585	7.7%
Improper Turn	1,554	7.2%	980	8.2%	1	1.2%	2,535	7.5%
License Violation	1,213	5.6%	876	7.3%	5	6.0%	2,094	6.2%
Insurance Violation	983	4.5%	667	5.6%	0	0.0%	1,650	4.9%
Speed	1,072	5.0%	474	3.9%	6	7.2%	1,552	4.6%
Driving Under the Influence	769	3.6%	595	5.0%	7	8.4%	1,371	4.1%
Unknown Violation	742	3.4%	537	4.5%	19	22.9%	1,298	3.8%
Failure to Stop at Red Light	616	2.8%	658	5.5%	3	3.6%	1,277	3.8%
Hit and Run	687	3.2%	192	1.6%	2	2.4%	881	2.6%
Registration Violation	237	1.1%	150	1.2%	1	1.2%	388	1.1%
Improper Backing	341	1.6%	27	0.2%	0	0.0%	368	1.1%
Equipment Violation	285	1.3%	72	0.6%	0	0.0%	357	1.1%
Failure to Stop at Stop Sign	183	0.8%	139	1.2%	0	0.0%	322	1.0%
Failure to Obey Traffic Control Device	178	0.8%	135	1.1%	0	0.0%	313	0.9%
Improper Start	195	0.9%	78	0.6%	0	0.0%	273	0.8%
Alcohol/Drug Violation, Other than DUI	104	0.5%	86	0.7%	9	10.8%	199	0.6%
Wrong Side of Road/Wrong Way	107	0.5%	68	0.6%	0	0.0%	175	0.5%
Reckless Driving	90	0.4%	63	0.5%	4	4.8%	157	0.5%
Improper Passing	126	0.6%	25	0.2%	0	0.0%	151	0.4%
Careless Driving	74	0.3%	59	0.5%	0	0.0%	133	0.4%
Seat Belt/Child Restraint/Helmet	27	0.1%	64	0.5%	3	3.6%	94	0.3%
Other Non-Moving Violation	50	0.2%	42	0.3%	1	1.2%	93	0.3%
Other Moving Violation	52	0.2%	29	0.2%	1	1.2%	82	0.2%
Improper Stop	53	0.2%	23	0.2%	0	0.0%	76	0.2%
Improper Signal	44	0.2%	10	0.1%	0	0.0%	54	0.2%
Texting	21	0.1%	2	0.0%	0	0.0%	23	0.1%
Vehicle Homicide	0	0.0%	0	0.0%	15	18.1%	15	0.0%
Total	21,651	100.0%	12,012	100.0%	83	100.0%	33,746	100.0%

- There were 33,746 citations issued at the scene of the crash. The most common violations were for following too close (17.5%), improper lane change/travel (11.5%), and improper lookout (8.2%).
- The leading violations in fatal crashes were vehicle homicide (18.1%) and alcohol/drug violations others than DUI (10.8%).

Crash Conditions

Contributing Factors (Utah 2011)

Contributing Factors	Drivers/Vehicles							
	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Followed Too Closely	8,017	15.7%	3,904	15.4%	13	2.3%	11,934	15.5%
Failed to Yield Right of Way	5,705	11.2%	3,643	14.4%	27	4.8%	9,375	12.2%
Failed to Keep in Proper Lane	4,438	8.7%	2,040	8.1%	79	14.1%	6,557	8.5%
Speed Too Fast	4,331	8.5%	2,050	8.1%	81	14.4%	6,462	8.4%
Other Improper Driving	3,454	6.8%	1,807	7.1%	2	0.4%	5,263	6.8%
Driver Distraction	3,047	6.0%	1,865	7.4%	20	3.6%	4,932	6.4%
Hit and Run	2,235	4.4%	596	2.4%	7	1.2%	2,838	3.7%
Improper Turn	1,924	3.8%	727	2.9%	2	0.4%	2,653	3.5%
Disregard Traffic Signal/Sign	1,330	2.6%	1,256	5.0%	17	3.0%	2,603	3.4%
Improper Backing	2,220	4.4%	117	0.5%	0	0.0%	2,337	3.0%
Vision Obscured by Weather Condition	1,677	3.3%	606	2.4%	6	1.1%	2,289	3.0%
Driving Under the Influence	1,193	2.3%	963	3.8%	62	11.1%	2,218	2.9%
Improper Lane Change	1,653	3.2%	404	1.6%	5	0.9%	2,062	2.7%
Ran Off Road	1,123	2.2%	772	3.1%	98	17.5%	1,993	2.6%
Swerved or Evasive Action	912	1.8%	561	2.2%	24	4.3%	1,497	1.9%
Overcorrected	856	1.7%	582	2.3%	39	7.0%	1,477	1.9%
Vehicle Other Defective Condition	781	1.5%	265	1.0%	4	0.7%	1,050	1.4%
Improper Parking/Stopping	768	1.5%	259	1.0%	1	0.2%	1,028	1.3%
Driver Asleep/Fatigue	546	1.1%	405	1.6%	5	0.9%	956	1.2%
Vision Obscured by Moving Vehicle	491	1.0%	295	1.2%	2	0.4%	788	1.0%
Vehicle Tires	471	0.9%	216	0.9%	9	1.6%	696	0.9%
Other Driver Condition	463	0.9%	212	0.8%	7	1.2%	682	0.9%
Reckless/Aggressive Driving	386	0.8%	236	0.9%	12	2.1%	634	0.8%
Vehicle Brakes	361	0.7%	176	0.7%	0	0.0%	537	0.7%
Vision Obscured by Parked Vehicle	367	0.7%	142	0.6%	1	0.2%	510	0.7%
Driver Emotional Prior to Crash	292	0.6%	212	0.8%	5	0.9%	509	0.7%
Vision Obscured by Other	340	0.7%	163	0.6%	1	0.2%	504	0.7%
Vision Obscured by Glare	276	0.5%	182	0.7%	2	0.4%	460	0.6%
Improper Passing	367	0.7%	69	0.3%	8	1.4%	444	0.6%
Driver Illness/Medical	154	0.3%	228	0.9%	6	1.1%	388	0.5%
Wrong Side/Wrong Way	166	0.3%	128	0.5%	13	2.3%	307	0.4%
Vehicle Cargo	190	0.4%	25	0.1%	1	0.2%	216	0.3%
Vision Obscured by Physical Obstruction	118	0.2%	58	0.2%	0	0.0%	176	0.2%
Disregard Road Markings	114	0.2%	44	0.2%	0	0.0%	158	0.2%
Windshield or Other Window Obscured	102	0.2%	35	0.1%	1	0.2%	138	0.2%
Vision Obscured by Vegetation	71	0.1%	43	0.2%	1	0.2%	115	0.1%
Improper Signal	64	0.1%	20	0.1%	0	0.0%	84	0.1%
Total	51,003	100.0%	25,306	100.0%	561	100.0%	76,870	100.0%

- Some form of poor driver performance is present in the majority of crashes. The leading contributing factors for all crashes were followed too closely (15.5%), failed to yield right of way (12.2%), failed to keep in proper lane (8.5%), and speed too fast (10.4%).
- The leading contributing factors in fatal crashes were ran off road (17.5%), speed too fast (14.4%), and failed to keep in proper lane (14.1%).

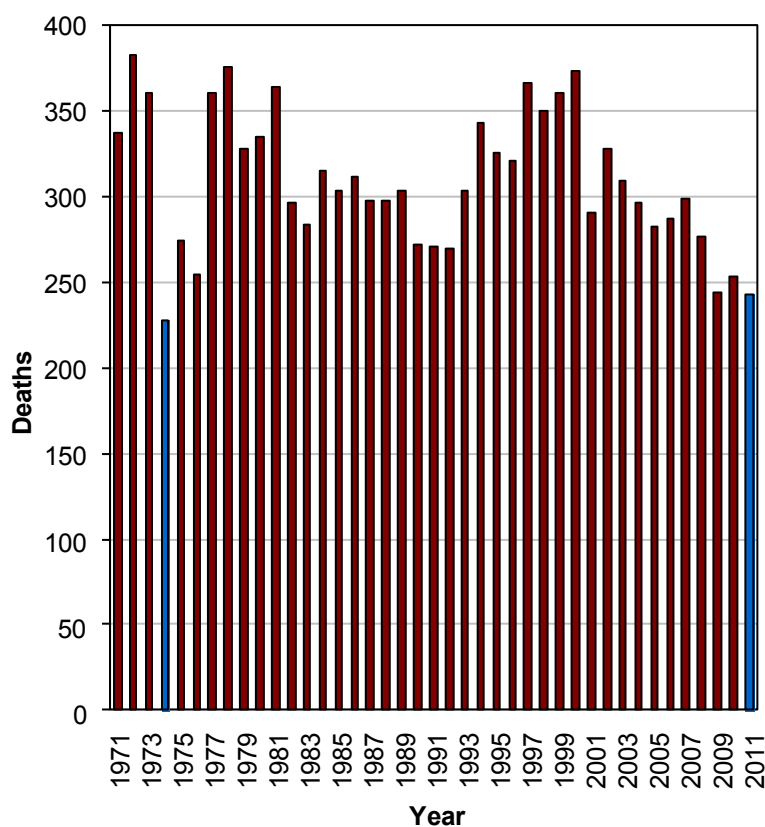
Did you know in 2011:

- 52,287 motor vehicle crashes occurred in Utah which resulted in 22,325 injured persons and 243 deaths.
- The Utah death rate per mile traveled was lower than the U.S. rate.
- A motor vehicle crash occurred in Utah every 10 minutes, a person was injured in a crash every 23 minutes, and a person died in a crash every 36 hours.

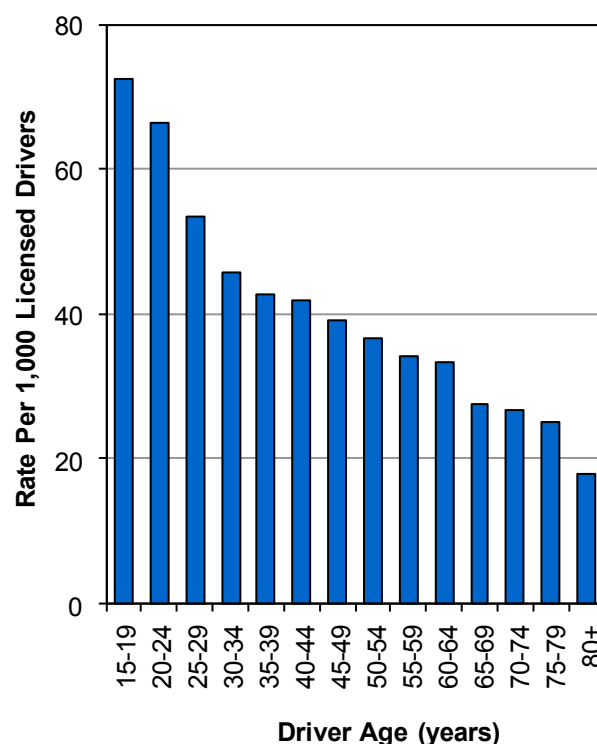
Overview



Deaths by Year (Utah 1971-2011)



Crash Rates per Licensed Drivers by Age (Utah 2011)



- 2011 had the lowest deaths in Utah since 1974.

- Drivers aged 15-19 years had the highest crash rates per licensed driver.

Crash Summary (Utah 2011)

Leading Crash Types

1. Followed Too Closely Crashes (22%)
2. Teen Driver Crashes (20%)
3. Inclement Weather Crashes (18%)
4. Failed to Yield Crashes (18%)
5. Speed Crashes (17%)

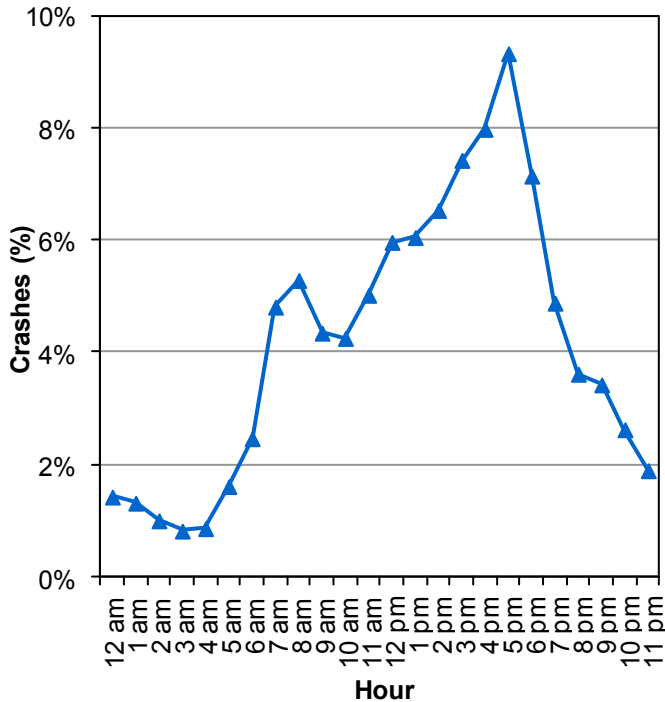
Leading Causes of Death

1. Speed (42%)
2. Failed to Keep in Proper Lane (35%)
3. Unrestrained Occupants (34%)
4. Drunk Driving (16%)
5. Failed to Yield (11%)

Overview



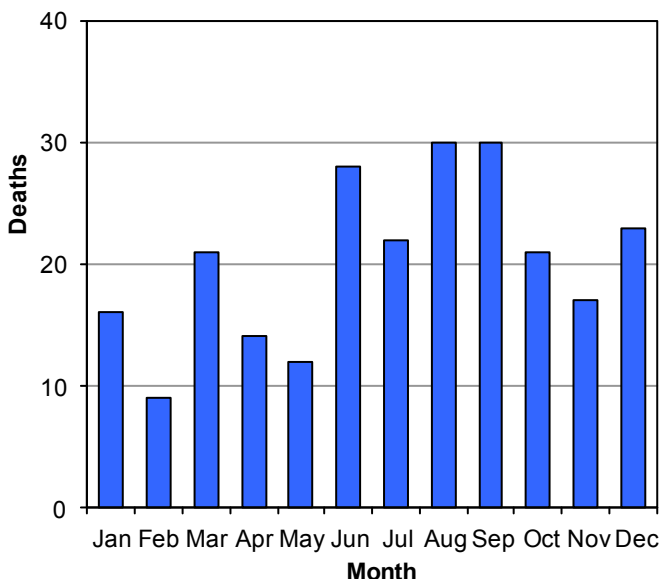
Motor Vehicle Crashes by Hour (Utah 2011)



- Crashes were highest between 2:00 p.m. and 6:59 p.m.

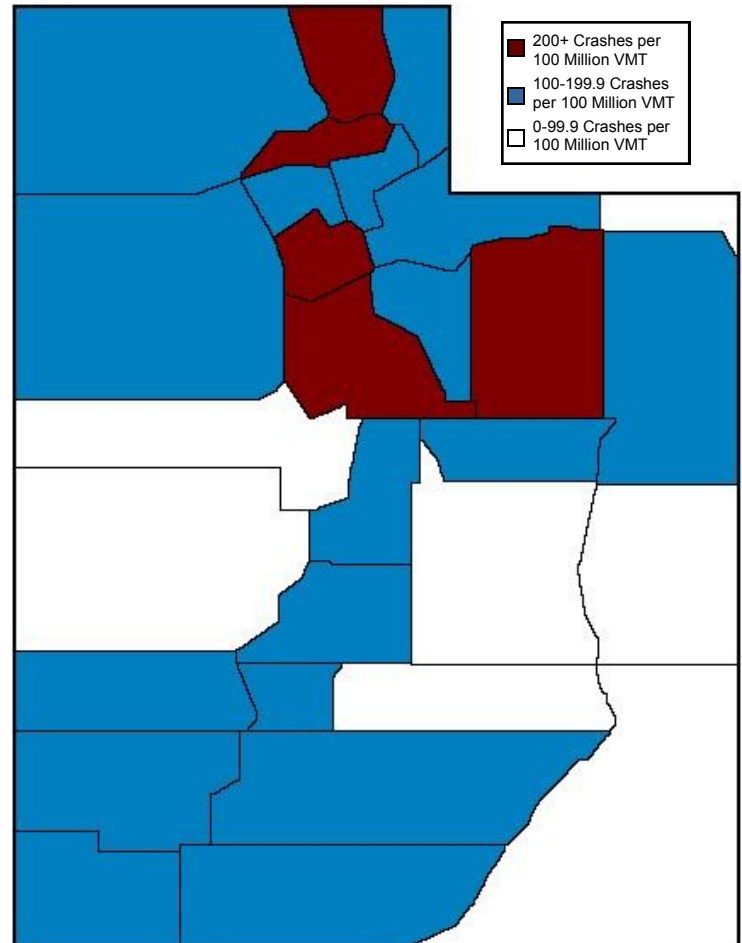
Vehicle rollovers were the most deadly event, being 5.7 times more likely to result in a death than other crashes.

Deaths by Month (Utah 2011)



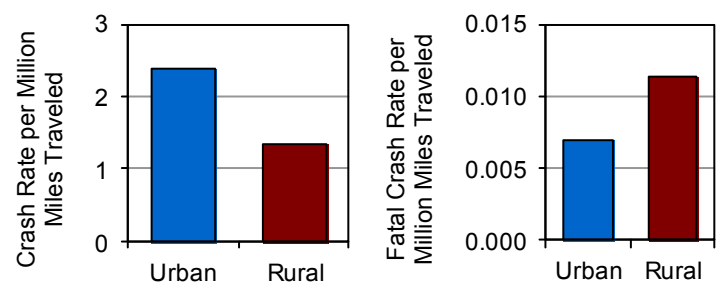
- August and September had the most deaths.

County Crash Rates by Miles Traveled (Utah 2011)



- Utah, Salt Lake, and Duchesne Counties had the highest crash rates per miles traveled.

Urban/Rural Location (Utah 2011)



- Urban areas had a higher rate of total crashes per vehicle mile traveled while rural areas had a higher fatal crash rate.
- Rural crashes were 2.9 times more likely to be fatal than urban crashes.