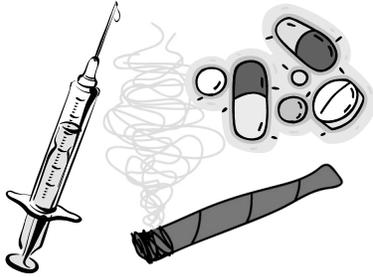


Drug-Impaired Drivers

buzzed
driving is
drunk
driving
designate a sober driver



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Section E1: Drug-Impaired Drivers

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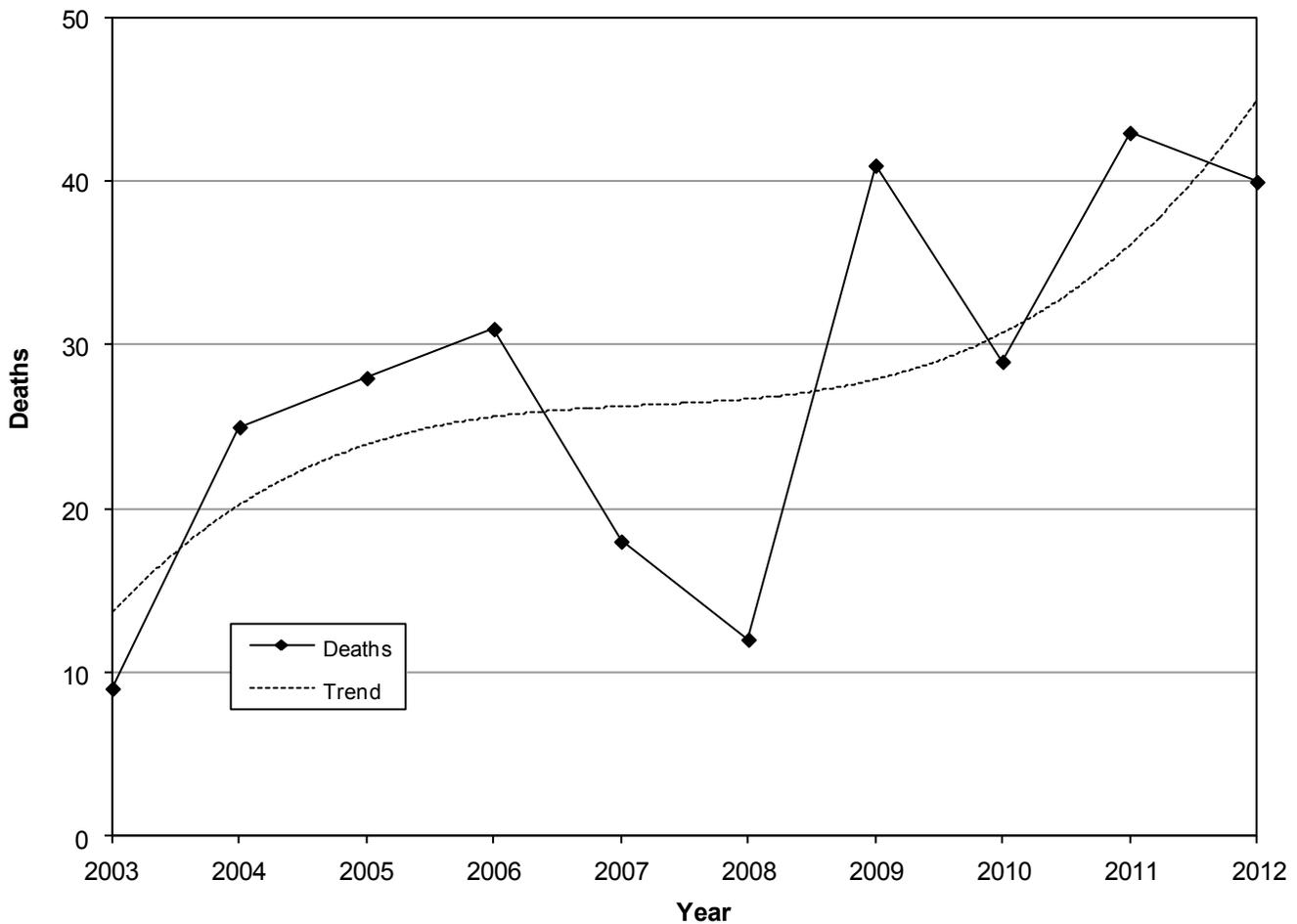
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Trends

Fatal Crashes Involving Drug Positive Drivers (Utah 2003-2012)

Year	Deaths			Fatal Crashes		
	All	Drug		All	Drug	
	#	#	%	#	#	%
2003	309	9	2.9%	262	9	3.4%
2004	296	25	8.4%	260	23	8.8%
2005	282	28	9.9%	235	25	10.6%
2006	287	31	10.8%	249	28	11.2%
2007	299	18	6.0%	260	17	6.5%
2008	276	12	4.3%	244	9	3.7%
2009	244	41	16.8%	217	28	12.9%
2010	253	29	11.5%	218	22	10.1%
2011	243	43	17.7%	224	37	16.5%
2012	217	40	18.4%	200	36	18.0%
Total	2,706	276	10.2%	2,369	234	9.9%

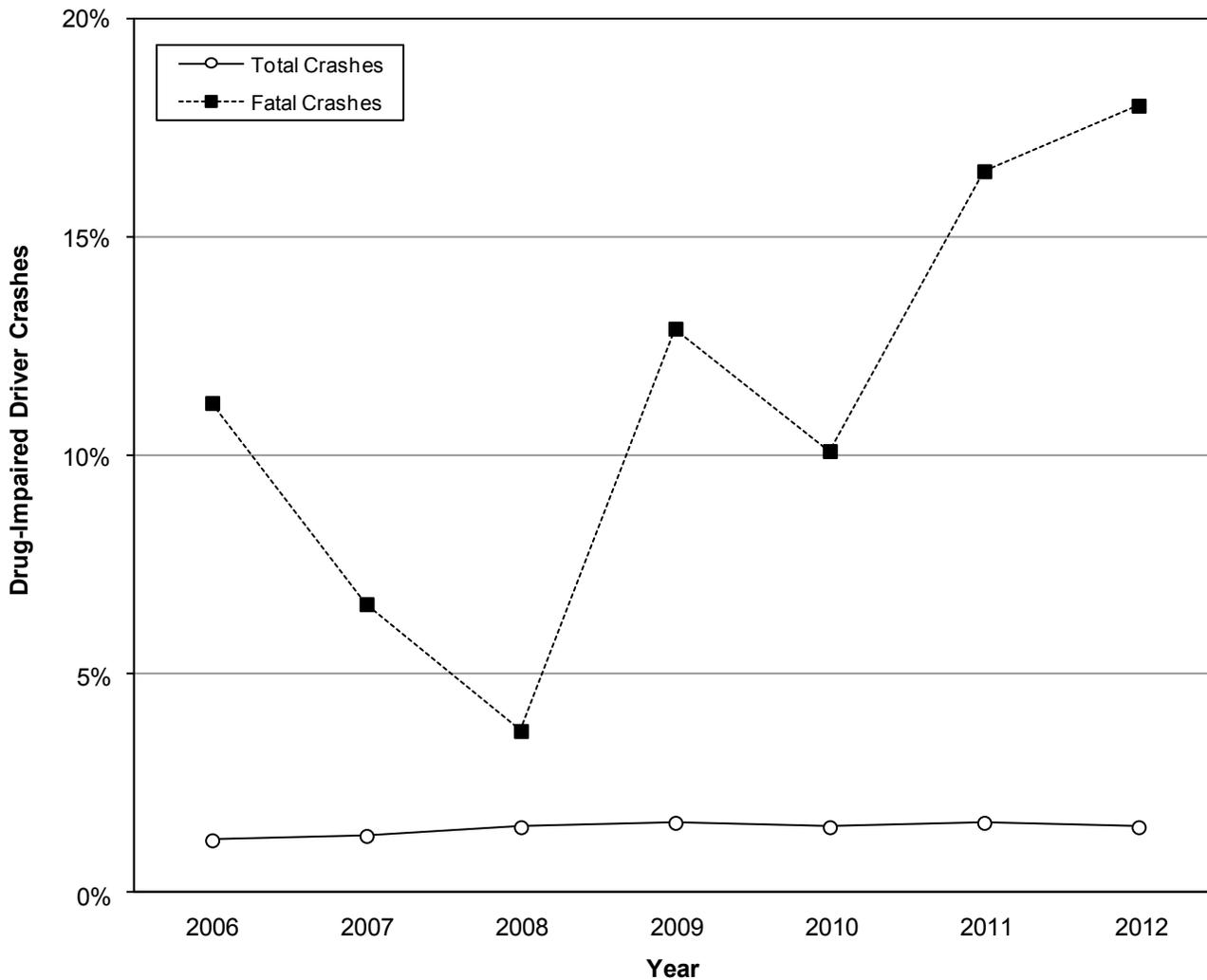


- Over the past 10 years, the percentage of deaths and fatal crashes involving drug positive drivers has fluctuated around 10% of all deaths and fatal crashes.
- On average, 28 people die a year in Utah from drug positive driver crashes.

Trends

Drug-Impaired Driver Crashes (Utah 2006-2012)

Drug-Impaired Driver Crashes												
Year	Property Damage Only			Injury			Fatal			Total		
	All	Drug		All	Drug		All	Drug		All	Drug	
	#	#	%	#	#	%	#	#	%	#	#	%
2006	37,674	306	0.8%	18,264	367	2.0%	249	28	11.2%	56,187	701	1.2%
2007	42,368	379	0.9%	18,619	387	2.1%	258	17	6.6%	61,245	783	1.3%
2008	38,997	383	1.0%	17,125	433	2.5%	245	9	3.7%	56,367	825	1.5%
2009	35,398	394	1.1%	15,752	390	2.5%	217	28	12.9%	51,367	812	1.6%
2010	34,155	361	1.1%	14,995	360	2.4%	218	22	10.1%	49,368	743	1.5%
2011	36,418	416	1.1%	15,645	378	2.4%	224	37	16.5%	52,287	831	1.6%
2012	34,635	352	1.0%	15,765	377	2.4%	200	36	18.0%	50,600	765	1.5%
Total	259,645	2,591	1.0%	116,165	2,692	2.3%	1,611	177	11.0%	377,421	5,460	1.4%



- Over the past 7 years, 1.4% of total crashes involved drug-impaired drivers compared with 11.0% of fatal crashes.
- Over the past 7 years, drug-impaired driver crashes were 8.7 times more likely to be fatal than crashes not involving a drug-impaired driver.

Crash Conditions

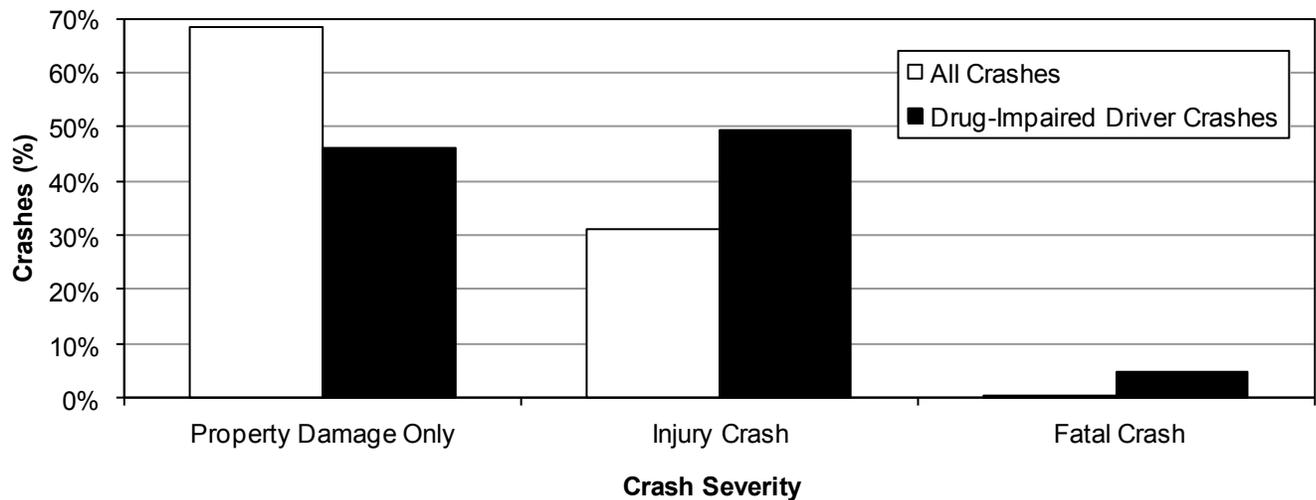
Drug-Impaired Driver Crashes by County (Utah 2012)

Drug-Impaired Driver Crashes								
County	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
Daggett	0	0.0	1	3.3	1	3.29	2	6.6
Uintah	5	1.2	8	1.9	4	0.97	17	4.1
Duchesne	6	2.2	5	1.8	0	0.00	11	4.0
Tooele	14	1.7	16	1.9	2	0.24	32	3.9
Cache	15	1.7	14	1.6	2	0.23	31	3.5
Piute	0	0.0	1	3.5	0	0.00	1	3.5
Salt Lake	145	1.7	148	1.7	11	0.13	304	3.5
Utah	59	1.5	70	1.8	4	0.10	133	3.5
Carbon	2	0.7	7	2.3	0	0.00	9	2.9
Sevier	4	1.3	4	1.3	1	0.31	9	2.8
Weber	22	1.4	19	1.2	2	0.12	43	2.7
Davis	38	1.5	26	1.0	3	0.12	67	2.6
Washington	12	0.9	19	1.4	3	0.22	34	2.5
Wayne	0	0.0	1	2.1	0	0.00	1	2.1
Summit	7	1.0	6	0.8	2	0.27	15	2.1
Rich	0	0.0	1	2.0	0	0.00	1	2.0
Iron	8	1.1	5	0.7	0	0.00	13	1.9
Wasatch	2	0.6	4	1.2	0	0.00	6	1.8
Beaver	3	1.2	1	0.4	0	0.00	4	1.6
Morgan	1	0.8	1	0.8	0	0.00	2	1.5
Sanpete	1	0.5	2	1.0	0	0.00	3	1.5
Emery	0	0.0	4	1.0	1	0.26	5	1.3
Box Elder	2	0.2	8	0.9	0	0.00	10	1.1
Juab	1	0.3	3	0.8	0	0.00	4	1.0
Garfield	0	0.0	1	0.9	0	0.00	1	0.9
Millard	3	0.7	1	0.2	0	0.00	4	0.9
San Juan	1	0.3	1	0.3	0	0.00	2	0.7
Kane	1	0.6	0	0.0	0	0.00	1	0.6
Grand	0	0.0	0	0.0	0	0.00	0	0.0
Statewide	352	1.3	377	1.4	36	0.14	765	2.9

- Daggett (6.6), Uintah (4.1), Duchesne (4.0), and Tooele (3.9) counties had the highest rates of drug-impaired driver total crashes per 100 million vehicle miles traveled.
- Grand (0.0), Kane (0.6), and San Juan (0.7) counties had the lowest rates of drug-impaired driver total crashes per 100 million vehicle miles traveled.
- Nearly one-third (30.6%) of the fatal crashes involving drug positive drivers occurred in Salt Lake County.

Crash Conditions

Drug-Impaired Driver Crash Severity (Utah 2012)



- Drug-impaired driver crashes were 2.6 times more likely to have a death or injury than other crashes.
- A higher percentage of drug-impaired driver crashes (49.3%) resulted in an injury compared to all motor vehicle crashes that resulted in an injury (31.2%).
- In addition, a higher percentage of drug-impaired driver crashes were fatal (4.7%) compared to all motor vehicle crashes (0.4%).

Drug-Impaired Driver Crashes by Month (Utah 2012)

Drug-Impaired Driver Crashes								
Month	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	Rate per Day	#	Rate per Day	#	Rate per Day	#	Rate per Day
January	28	0.9	38	1.2	2	0.06	68	2.2
February	35	1.2	34	1.2	2	0.07	71	2.4
March	27	0.9	25	0.8	3	0.10	55	1.8
April	29	1.0	31	1.0	3	0.10	63	2.1
May	36	1.2	34	1.1	3	0.10	73	2.4
June	37	1.2	37	1.2	2	0.07	76	2.5
July	33	1.1	32	1.0	3	0.10	68	2.2
August	34	1.1	34	1.1	1	0.03	69	2.2
September	20	0.7	34	1.1	3	0.10	57	1.9
October	21	0.7	29	0.9	4	0.13	54	1.7
November	28	0.9	27	0.9	6	0.20	61	2.0
December	24	0.8	22	0.7	4	0.13	50	1.6
Total	352	1.0	377	1.0	36	0.10	765	2.1

- Overall, the highest rates per day of drug-impaired driver crashes were in June (2.5), May (2.4), and February (2.4) with the lowest rate per day in December (1.6).
- The highest rate per day of fatal drug positive driver crashes occurred in November.

Crash Conditions

Drug-Impaired Driver Crashes by Day of Week (Utah 2012)

Drug-Impaired Driver Crashes								
Day of Week	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Sunday	47	13.4%	53	14.1%	7	19.4%	107	14.0%
Monday	30	8.5%	52	13.8%	5	13.9%	87	11.4%
Tuesday	44	12.5%	60	15.9%	4	11.1%	108	14.1%
Wednesday	51	14.5%	51	13.5%	7	19.4%	109	14.2%
Thursday	62	17.6%	49	13.0%	5	13.9%	116	15.2%
Friday	61	17.3%	57	15.1%	5	13.9%	123	16.1%
Saturday	57	16.2%	55	14.6%	3	8.3%	115	15.0%
Total	352	100.0%	377	100.0%	36	100.0%	765	100.0%

- The highest percentage of drug-impaired driver total crashes occurred on Friday and Thursday.
- The highest percentage of drug positive driver fatal crashes occurred on Sunday and Wednesday.

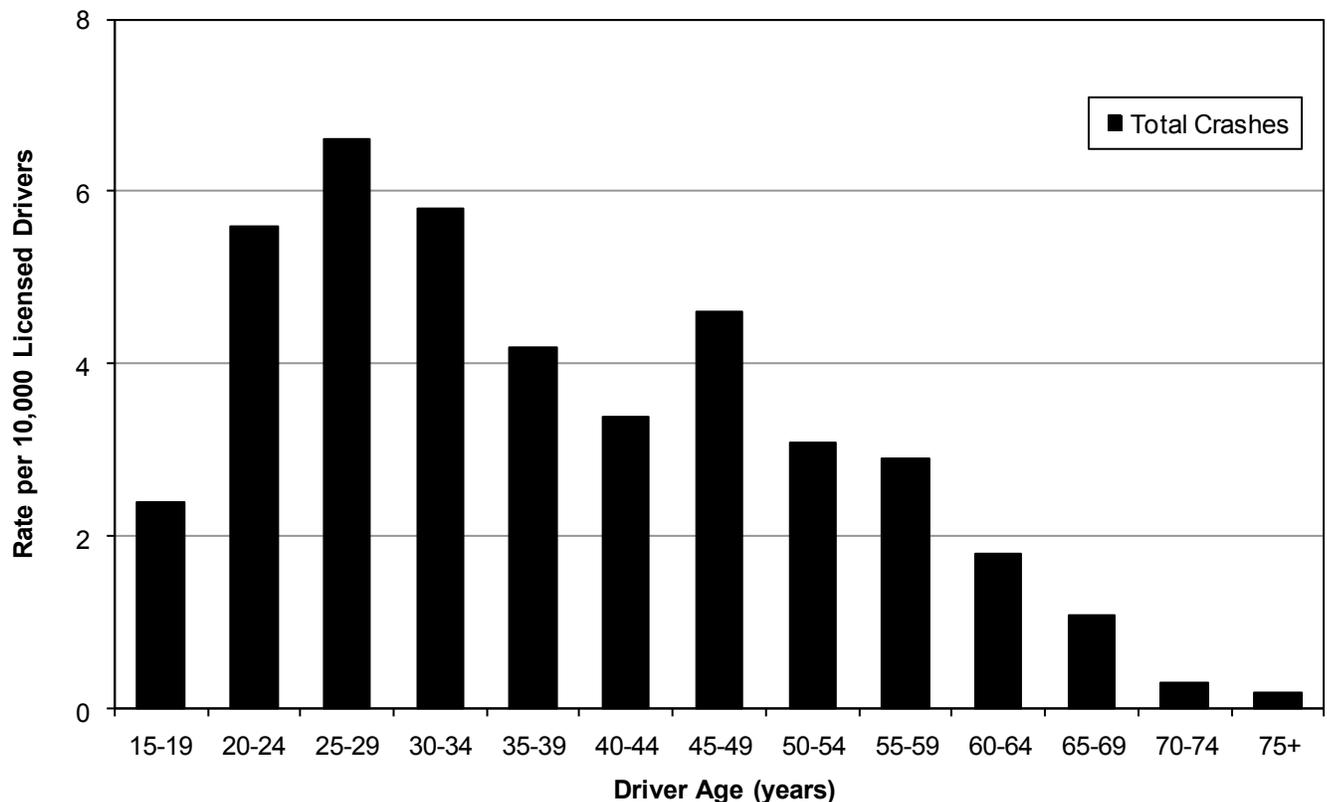
Drug-Impaired Driver Crashes by Hour (Utah 2012)

Drug-Impaired Driver Crashes								
Hour	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Midnight	14	4.0%	12	3.2%	2	5.6%	28	3.7%
1 a.m.	13	3.7%	15	4.0%	1	2.8%	29	3.8%
2 a.m.	14	4.0%	8	2.1%	2	5.6%	24	3.1%
3 a.m.	4	1.1%	10	2.7%	1	2.8%	15	2.0%
4 a.m.	10	2.8%	6	1.6%	0	0.0%	16	2.1%
5 a.m.	4	1.1%	6	1.6%	1	2.8%	11	1.4%
6 a.m.	7	2.0%	12	3.2%	2	5.6%	21	2.7%
7 a.m.	12	3.4%	16	4.2%	1	2.8%	29	3.8%
8 a.m.	8	2.3%	17	4.5%	1	2.8%	26	3.4%
9 a.m.	15	4.3%	8	2.1%	0	0.0%	23	3.0%
10 a.m.	13	3.7%	17	4.5%	0	0.0%	30	3.9%
11 a.m.	11	3.1%	23	6.1%	1	2.8%	35	4.6%
Noon	21	6.0%	22	5.8%	0	0.0%	43	5.6%
1 p.m.	24	6.8%	20	5.3%	1	2.8%	45	5.9%
2 p.m.	14	4.0%	13	3.4%	6	16.7%	33	4.3%
3 p.m.	20	5.7%	24	6.4%	1	2.8%	45	5.9%
4 p.m.	22	6.3%	20	5.3%	7	19.4%	49	6.4%
5 p.m.	14	4.0%	27	7.2%	4	11.1%	45	5.9%
6 p.m.	30	8.5%	20	5.3%	2	5.6%	52	6.8%
7 p.m.	21	6.0%	18	4.8%	2	5.6%	41	5.4%
8 p.m.	15	4.3%	19	5.0%	0	0.0%	34	4.4%
9 p.m.	15	4.3%	12	3.2%	0	0.0%	27	3.5%
10 p.m.	20	5.7%	19	5.0%	0	0.0%	39	5.1%
11 p.m.	11	3.1%	13	3.4%	1	2.8%	25	3.3%
Total	352	100.0%	377	100.0%	36	100.0%	765	100.0%

- Drug-impaired driver total crashes peaked in the afternoon and early evening hours (12:00 p.m. to 7:59 p.m.).
- Fatal drug positive driver crashes were highest during the hours of 4 p.m. and 2 p.m.

Age of Drug-Impaired Drivers in Crashes (Utah 2012)

Age	Drug-Impaired Drivers											
	PDO Crashes			Injury Crashes			Fatal Crashes			Total		
	#	%	Rate per 10,000 Drivers	#	%	Rate per 10,000 Drivers	#	%	Rate per 10,000 Drivers	#	%	Rate per 10,000 Drivers
<15	0	0.0%	n/a	0	0.0%	n/a	0	0.0%	n/a	0	0.0%	n/a
15-19	18	5.1%	1.0	26	6.9%	1.4	0	0.0%	0.00	44	5.7%	2.4
20-24	55	15.6%	2.6	58	15.4%	2.8	5	13.5%	0.24	118	15.4%	5.6
25-29	55	15.6%	2.5	80	21.2%	3.7	9	24.3%	0.41	144	18.8%	6.6
30-34	69	19.6%	3.1	57	15.1%	2.6	3	8.1%	0.14	129	16.8%	5.8
35-39	43	12.2%	2.3	29	7.7%	1.6	6	16.2%	0.32	78	10.2%	4.2
40-44	21	6.0%	1.3	32	8.5%	1.9	4	10.8%	0.24	57	7.4%	3.4
45-49	34	9.7%	2.2	32	8.5%	2.1	4	10.8%	0.26	70	9.1%	4.6
50-54	25	7.1%	1.6	22	5.8%	1.4	1	2.7%	0.06	48	6.3%	3.1
55-59	16	4.5%	1.1	24	6.4%	1.7	1	2.7%	0.07	41	5.4%	2.9
60-64	10	2.8%	0.9	9	2.4%	0.8	2	5.4%	0.17	21	2.7%	1.8
65-69	5	1.4%	0.6	4	1.1%	0.5	0	0.0%	0.00	9	1.2%	1.1
70-74	1	0.3%	0.2	1	0.3%	0.2	0	0.0%	0.00	2	0.3%	0.3
75+	0	0.0%	0.0	0	0.0%	0.0	2	5.4%	0.18	2	0.3%	0.2
Unknown	0	0.0%	n/a	3	0.8%	n/a	0	0.0%	n/a	3	0.4%	n/a
Total	352	100.0%	1.7	377	100.0%	1.9	37	100.0%	0.18	766	100.0%	3.8



- Drivers aged 20-34 years had the highest rate of total drug-impaired driver crashes.
- Drivers aged 25-29 (0.41) and 35-39 (0.32) years had the highest rate of drug positive driver fatal crashes.

Drivers

Gender of Drug-Impaired Drivers in Crashes (Utah 2012)

Drug-Impaired Drivers								
Gender	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Male	233	66.2%	262	69.5%	23	62.2%	518	67.6%
Female	119	33.8%	113	30.0%	14	37.8%	246	32.1%
Unknown	0	0.0%	2	0.5%	0	0.0%	2	0.3%
Total	352	100.0%	377	100.0%	37	100.0%	766	100.0%

- Male drivers were much more likely to be a drug-impaired driver in a crash. Male drivers represented 67.6% of the impaired drivers in total crashes and 62.2% of the drug positive drivers in fatal crashes.

Drivers in Fatal Crashes by Drug Test (Utah 2012)

All Drivers in Fatal Crashes		
Drug Test Results	Drivers	
	#	%
Negative	113	38.3%
Positive For 1 Drug	21	7.1%
Positive For More Than 1 Drug	16	5.4%
Not Tested/Unknown	145	49.2%
Total	295	100.0%

- Of the 150 drivers in fatal crashes who were tested for drugs, 113 (75.3%) tested negative, 21 (14.0%) tested positive for one drug, and 16 (10.7%) tested positive for more than one drug.

Drug Positive Drivers in Fatal Crashes by Test Results (Utah 2012)

- These two tables show the same information. One table is by drug category and the other is by specific drugs.
- 37 drivers in fatal crashes tested positive for drugs. 16 of these drivers tested positive for more than one drug.
- Stimulants (methamphetamine, amphetamine), cannabinoids [THC (marijuana)], depressants (diazepam, nordiazepam), and narcotics (hydrocodone, oxycodone) were the most common drug types.

Drug Positive Drivers in Fatal Crashes		
Drug Type	Drivers	
	#	%
Stimulant	20	35.1%
Cannabinoid	11	19.3%
Depressant	9	15.8%
Narcotic	7	12.3%
Hallucinogen	1	1.8%
Other Drug	4	7.0%
Unknown Type	5	8.8%
Total	57	100.0%

Drug Positive Drivers in Fatal Crashes		
Drug Type	Drivers	
	#	%
Methamphetamine	13	22.8%
THC	11	19.3%
Amphetamine	5	8.8%
Diazepam	3	5.3%
Hydrocodone	3	5.3%
Nordiazepam	3	5.3%
Oxycodone	3	5.3%
Alprazolam	1	1.8%
Benzoyllecgonine	1	1.8%
Cocaine	1	1.8%
Diethyltryptamine (DET)	1	1.8%
Morpheridine	1	1.8%
Temazepam	1	1.8%
Zolpidem	1	1.8%
Other Drug	4	7.0%
Unknown Type	5	8.8%
Total	57	100.0%

Note: Drug presence does not necessarily imply impairment. For many drug types, drug presence can be detected long after any impairment that might affect driving has passed. Also, whereas the impairment effects for various concentration levels of alcohol is well understood, little evidence is available to link concentrations of other drug types to driver performance.

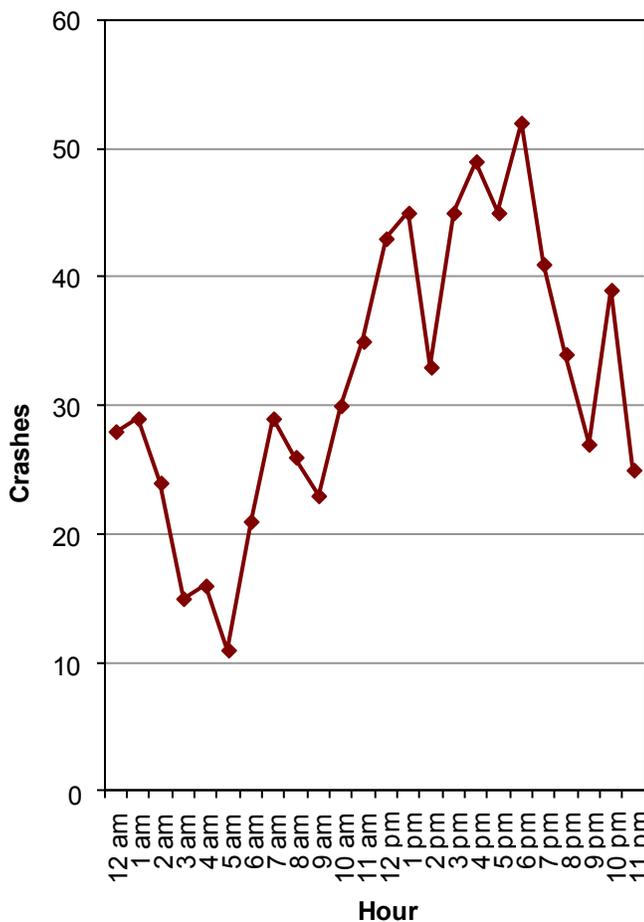
Did you know in 2012:

- 765 drug-impaired driver crashes occurred in Utah which resulted in 545 injured persons and 40 deaths.
- Drug-impaired driver crashes were 2.6 times more likely to result in an injury or death than other crashes.
- The number of deaths involving a drug positive driver was double the amount of deaths involving a drunk driver (40 deaths compared to 20).

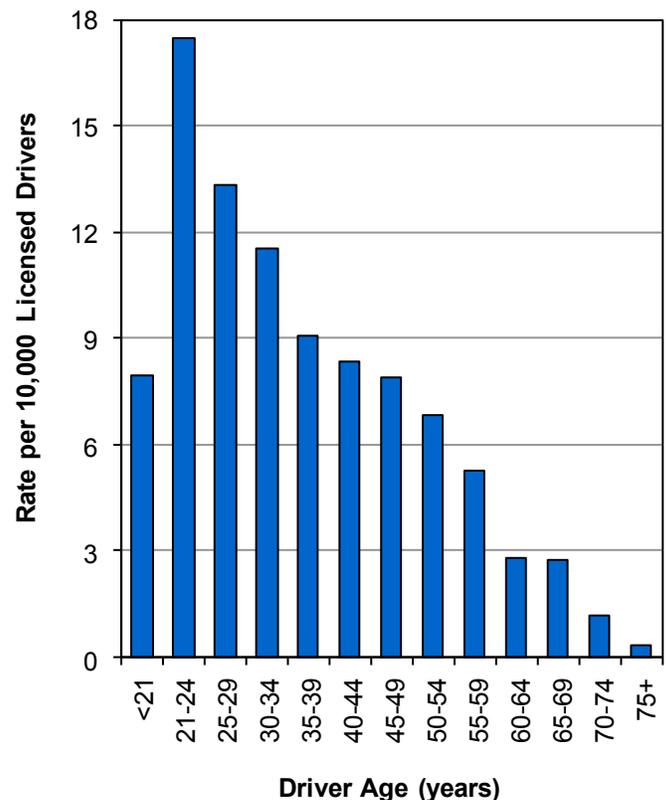
Drug-Impaired Drivers



Drug-Impaired Driver Crashes by Hour (Utah 2012)



Rate of Drug-Impaired Drivers in Crashes per Licensed Driver (Utah 2012)



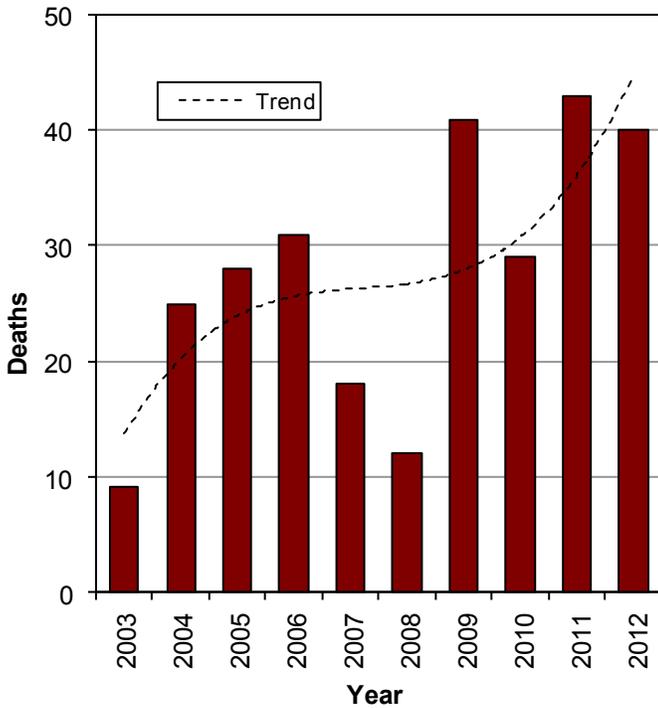
- Drug-impaired driver crashes were highest during the afternoon and early evening hours (12:00 p.m.-7:59 p.m.).
- Fatal drug positive driver crashes were highest during the hours of 4 p.m. and 2 p.m.

- Drivers aged 20 to 34 years had the highest rates of drug-impaired crashes.
- Drivers aged 25 to 29 years had the highest rate of drug positive fatal crashes.

Drug-Impaired Drivers

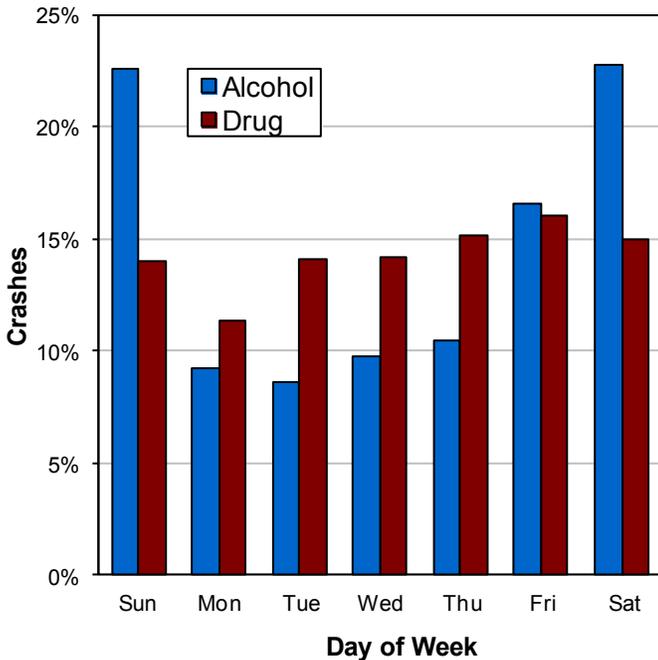


Deaths Involving Drug Positive Drivers (Utah 2003-2012)



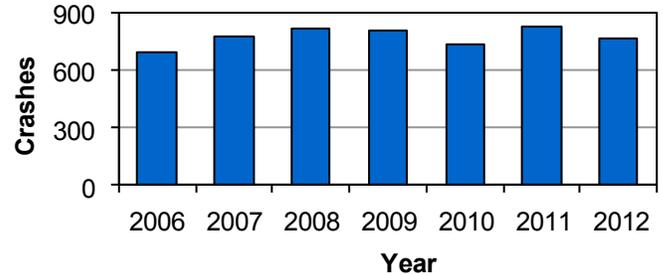
- Utah has averaged 38 deaths a year involving drug positive drivers over the last four years.

Drug-Impaired vs. Alcohol-Impaired Driver Crashes by Day of the Week (Utah 2012)



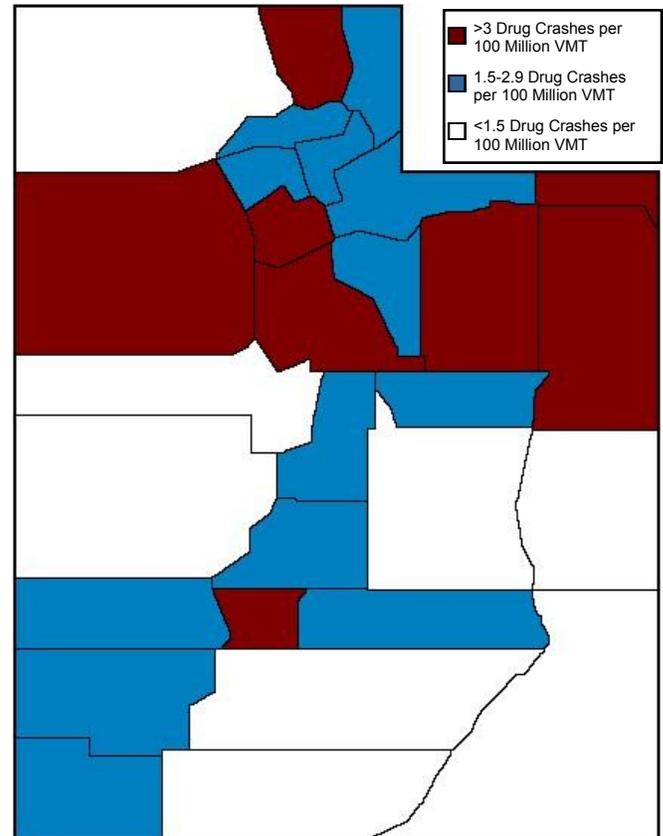
- While alcohol-impaired driver crashes occurred more on weekends, drug impaired driver crashes were spread throughout the week.

Drug-Impaired Driver Crashes (Utah 2006-2012)



- The number of drug-impaired driver crashes decreased 8% in 2012 compared to 2011.

Drug-Impaired Driver Crashes by County (Utah 2012)



- Daggett, Uintah, and Duchesne Counties had the highest rates of drug-impaired driver crashes per vehicle miles traveled (VMT).
- Grand, Kane, and San Juan Counties had the lowest rates of drug-impaired driver crashes per VMT.