Drowsy Drivers

SLEEP SMART. DRIVE SMART. DROWSY DRIVING KILLS







Section 7: Drowsy Drivers

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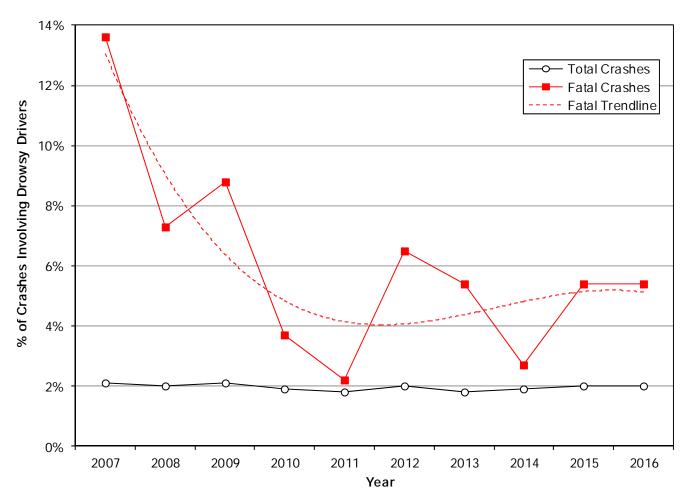




Trends

Drowsy Driver Crashes (Utah 2007-2016)

Drowsy Driver Crashes													
	Property	y Dama	ge Only		Injury			Fatal			Total		
	All	Drows	y Driver	All Drowsy Driver			All	Drows	y Driver	All	Drows	y Driver	
Year	#	#	%	#	#	%	#	#	%	#	#	%	
2007	42,368	694	1.6%	18,619	584	3.1%	258	35	13.6%	61,245	1,313	2.1%	
2008	38,997	594	1.5%	17,125	510	3.0%	245	18	7.3%	56,367	1,122	2.0%	
2009	35,398	616	1.7%	15,752	448	2.8%	217	19	8.8%	51,367	1,083	2.1%	
2010	34,155	524	1.5%	14,995	429	2.9%	218	8	3.7%	49,368	961	1.9%	
2011	36,418	546	1.5%	15,645	404	2.6%	224	5	2.2%	52,287	955	1.8%	
2012	34,635	597	1.7%	15,765	414	2.6%	200	13	6.5%	50,600	1,024	2.0%	
2013	39,301	587	1.5%	16,134	417	2.6%	202	11	5.4%	55,637	1,015	1.8%	
2014	37,388	583	1.6%	16,426	452	2.8%	222	6	2.7%	54,036	1,041	1.9%	
2015	42,089	661	1.6%	17,665	503	2.8%	258	14	5.4%	60,012	1,178	2.0%	
2016	43,465	746	1.7%	18,747	511	2.7%	259	14	5.4%	62,471	1,271	2.0%	
Total	384,214	6,148	1.6%	166,873	4,672	2.8%	2,303	143	6.2%	553,390	10,963	2.0%	

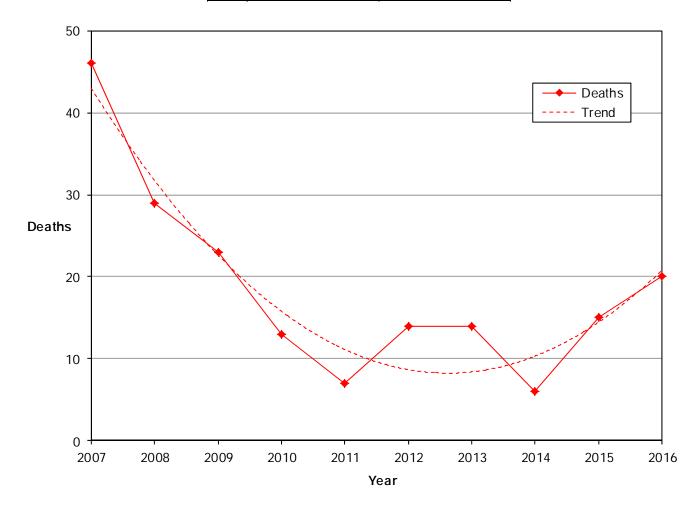


- The 10-year trend shows that 2.0% of all crashes in Utah involved a drowsy driver.
- Fatal drowsy driver crashes have accounted for 6.2% of fatal crashes over the last 10 years.
- While these numbers are significant, they may not state the true size of the problem, since the identification of drowsiness or fatigue and its role in the crash by law enforcement can be very difficult.

Trends

Fatal Crashes Involving Drowsy Drivers (Utah 2007-2016)

Drowsy Driver Crashes													
		Deaths		Fat	al Cras	hes							
	All	Dro	wsy	All	Dro	wsy							
Year	#	#	%	#	#	%							
2007	299	46	15.4%	260	35	13.5%							
2008	276	29	10.5%	244	18	7.4%							
2009	244	23	9.4%	217	19	8.8%							
2010	253	13	5.1%	218	8	3.7%							
2011	243	7	2.9%	224	5	2.2%							
2012	217	14	6.5%	200	13	6.5%							
2013	220	14	6.4%	202	11	5.4%							
2014	256	6	2.3%	222	6	2.7%							
2015	278	15	5.4%	258	14	5.4%							
2016	281	20 7.1%		259 14		5.4%							
Total	2,567	187	7.3%	2,304	143	6.2%							

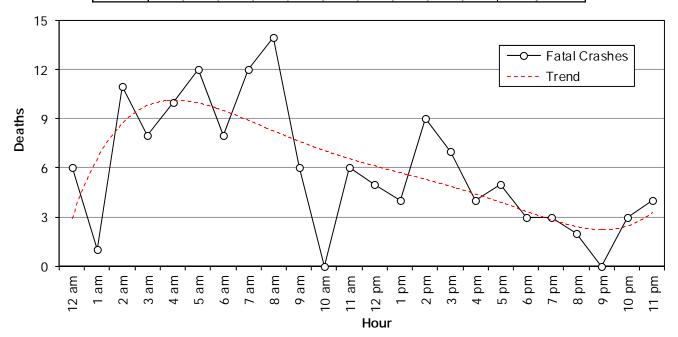


- Over the past 10 years, the percentage of deaths and fatal crashes involving drowsy drivers has fluctuated around 7% of all deaths and 6% of fatal crashes.
- On average, 19 people die a year in Utah from drowsy driver crashes.

Trends

Fatal Crashes Involving Drowsy Drivers by Hour (Utah 2007-2016)

Fatal Drowsy Driver Crashes Hour 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 Total %													
Hour	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Total	%	
Midnight	1	1	2	0	0	0	1	1	0	0	6	4.2%	
1 a.m.	0	0	0	0	0	0	0	0	0	1	1	0.7%	
2 a.m.	2	2	3	0	1	0	0	1	1	1	11	7.7%	
3 a.m.	5	0	1	0	0	0	0	0	0	2	8	5.6%	
4 a.m.	2	0	4	0	1	0	1	0	2	0	10	7.0%	
5 a.m.	3	2	1	1	0	1	1	0	1	2	12	8.4%	
6 a.m.	2	2	0	0	0	2	0	1	1	0	8	5.6%	
7 a.m.	3	3	2	1	0	0	2	0	1	0	12	8.4%	
8 a.m.	5	0	0	2	0	1	2	1	1	2	14	9.8%	
9 a.m.	0	0	1	0	1	2	0	0	1	1	6	4.2%	
10 a.m.	0	0	0	0	0	0	0	0	0	0	0	0.0%	
11 a.m.	1	2	0	0	0	2	1	0	0	0	6	4.2%	
Noon	2	0	0	0	1	1	0	0	0	1	5	3.5%	
1 p.m.	0	2	1	0	0	0	0	0	0	1	4	2.8%	
2 p.m.	2	0	0	0	0	2	1	1	3	0	9	6.3%	
3 p.m.	1	0	1	1	1	0	1	0	2	0	7	4.9%	
4 p.m.	1	1	0	0	0	2	0	0	0	0	4	2.8%	
5 p.m.	1	0	1	1	0	0	0	1	0	1	5	3.5%	
6 p.m.	0	1	0	1	0	0	1	0	0	0	3	2.1%	
7 p.m.	0	1	1	0	0	0	0	0	0	1	3	2.1%	
8 p.m.	0	0	0	0	0	0	0	0	1	1	2	1.4%	
9 p.m.	0	0	0	0	0	0	0	0	0	0	0	0.0%	
10 p.m.	2	1	0	0	0	0	0	0	0	0	3	2.1%	
11 p.m.	2	0	1	1	0	0	0	0	0	0	4	2.8%	
Total	35	18	19	8	5	13	11	6	14	14	143	100.0%	



Over the past 10 years, fatal drowsy driver crashes were highest during the hours of 2:00-8:59 a.m.
 Utah Crash Summary 2016 - Utah Department of Public Safety Highway Safety Office

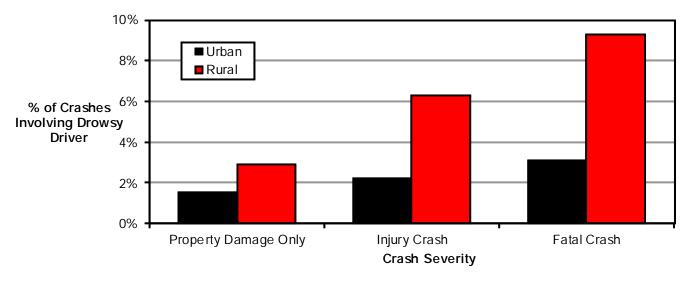
Drowsy Driver Crashes by County (Utah 2016)

			Dro	wsy D)rive	er Cras	shes	5				
	PDO	Crash	es	Injur	y Cra	shes	Fata	ıl C	rashes		Total	
	All	Drov	v sy	All	Dr	owsy	All		rowsy	All	Dro	wsy
County	#	#	%	#	#	%	#	#	%	#	#	%
Juab	262	21	8.0%	86	10	11.6%	5	1	20.0%	353	32	9.1%
Emery	170	8	4.7%	79	13	16.5%	7	0	0.0%	256	21	8.2%
Millard	301	19	6.3%	128	14	10.9%	5	0	0.0%	434	33	7.6%
Beaver	175	9	5.1%	76	9	11.8%	0	0	n/a	251	18	7.2%
Sevier	274	12	4.4%	110	8	7.3%	6	2	33.3%	390	22	5.6%
Grand	153	5	3.3%	65	6	9.2%	4	1	25.0%	222	12	5.4%
Piute	28	1	3.6%	10	1	10.0%	1	0	0.0%	39	2	5.1%
Box Elder	972	35	3.6%	378	26	6.9%	9	1	11.1%	1,359	62	4.6%
Tooele	749	27	3.6%	340	19	5.6%	18	3	16.7%	1,107	49	4.4%
Carbon	292	8	2.7%	90	9	10.0%	3	0	0.0%	385	17	4.4%
Wasatch	554	14	2.5%	165	10	6.1%	7	0	0.0%	726	24	3.3%
Wayne	40	1	2.5%	24	1	4.2%	0	0	n/a	64	2	3.1%
Morgan	131	4	3.1%	34	1	2.9%	1	0	0.0%	166	5	3.0%
Washington	1,845	46	2.5%	847	28	3.3%	14	1	7.1%	2,706	75	2.8%
San Juan	220	4	1.8%	38	3	7.9%	8	0	0.0%	266	7	2.6%
Rich	58	1	1.7%	23	1	4.3%	0	0	n/a	81	2	2.5%
Duchesne	234	1	0.4%	67	6	9.0%	1	0	0.0%	302	7	2.3%
Summit	898	14	1.6%	291	12	4.1%	4	0	0.0%	1,193	26	2.2%
Iron	698	14	2.0%	249	5	2.0%	4	0	0.0%	951	19	2.0%
Davis	3,972	69	1.7%	1,780	45	2.5%	24	0	0.0%	5,776	114	2.0%
Utah	6,376	108	1.7%	2,960	64	2.2%	29	1	3.4%	9,365		1.8%
Cache	1,557	21	1.3%	496	16	3.2%	11	0	0.0%	2,064	37	1.8%
Weber	2,836	42	1.5%	1,560	35	2.2%	17	0	0.0%	4,413	77	1.7%
Salt Lake	19,674	252	1.3%	8,546	162	1.9%	67	3	4.5%	28,287	417	1.5%
Kane	156	0	0.0%	50	3	6.0%	2	0	0.0%	208	3	1.4%
Uintah	397	6	1.5%	100	1	1.0%	2	0	0.0%	499	7	1.4%
Sanpete	265	2	0.8%	95	2	2.1%	4	1	25.0%	364	5	1.4%
Garfield	165	2	1.2%	60	1	1.7%	5	0	0.0%	230	3	1.3%
Daggett	13	0		0	0	n/a	1	0	0.0%	14	0	
Statewide	43,465	746	1.7%	18,747	511	2.7%	259	14	5.4%	62,471	1,271	2.0%

- Overall, Juab (9.1%) and Emery (8.2%) counties had the highest percentages of crashes involving a drowsy driver.
- Overall, Daggett (0.0%) and Garfield (1.3%) counties had the lowest percentages of crashes involving a drowsy driver.
- Statewide, drowsy driver crashes represented 2.0% of all crashes and 5.4% of all fatal crashes.
- Although only 1.5% of crashes in Salt Lake County involved a drowsy driver, Salt Lake was still the highest county for number of drowsy driver crashes accounting for 33% of the drowsy driver crashes in the state.

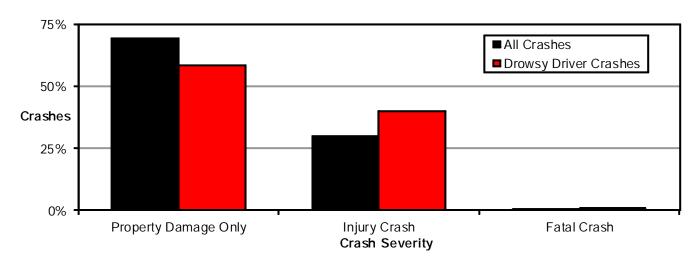
Drowsy Driver Crashes by Rural/Urban (Utah 2016)

	Drowsy Driver Crashes													
	PDO	PDO Crashes Injury Crashes Fatal Crashes Total												
	All	All Drowsy All Drowsy All Drowsy										wsy		
Location	#	#	%	#	#	%	#	#	%	#	#	%		
Rural	7,205	208	2.9%	2,558	161	6.3%	97	9	9.3%	9,860	378	3.8%		
Urban	36,260	538	1.5%	16,189	350	2.2%	162	5	3.1%	52,611	893	1.7%		
Statewide	43,465	43,465 746 1.7% 18,747 511 2.7% 259 14 5.4% 62,471 1,271 2.09									2.0%			



- Overall, 3.8% of rural crashes involved a drowsy driver compared to 1.7% of urban crashes.
- Rural crashes were 2.3 times more likely to involve a drowsy driver than urban crashes.

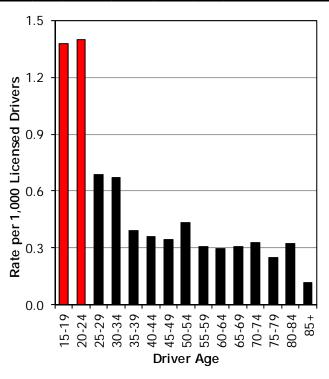
Drowsy Driver Crash Severity (Utah 2016)

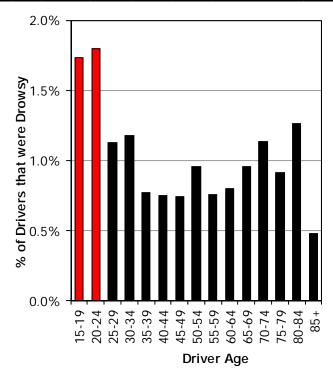


Drowsy driver crashes were more likely to result in injury (40% to 30%) and fatality (1.1% to 0.4%) compared
to all motor vehicle crashes.

Age of Drowsy Drivers in Crashes (Utah 2016)

Drowsy Drivers																
		PDO C	rashes			Injury (Crashe	S		Fatal 0	Crashes	5		Tot	al	
			04 - 5	Rate			0/ -£	Rate			0/ - 6	Rate			0, -6	Rate
		0/ -	% of	per		0/ -£	% of	per		0/ -£	% of	per		0/ - €	% of	per
		% of	All	1,000	<u>"</u>	% of	All	1,000	<u>"</u>	% of	All	1,000	ш	% of	All	1,000
Age	#	Age	Drivs	Drivs	#	Age	Drivs	Drivs	#	Age	Drivs	Drivs	#	Age	Drivs	Drivs
<15	0	0.0%	0.0%	n/a	0	0.0%	0.0%	n/a	0	0.0%	0.0%	n/a	0	0.0%		
15-19	159	21.3%	1.6%	0.87	91	17.8%	2.1%	0.50	3	21.4%	7.1%	0.016	253	19.9%	1.7%	1.38
20-24	194	26.0%	1.7%	0.90	106	20.8%	2.0%	0.49	2	14.3%	4.1%	0.009	302	23.8%	1.8%	1.40
25-29	80	10.7%	0.9%	0.37	66	12.9%	1.6%	0.31	2	14.3%	4.3%	0.009	148	11.7%	1.1%	0.69
30-34	79	10.6%	1.0%	0.39	57	11.2%	1.5%	0.28	1	7.1%	2.3%	0.005	137	10.8%	1.2%	0.67
35-39	37	5.0%	0.5%	0.18	44	8.6%	1.2%	0.21	2	14.3%	6.1%	0.009	83	6.5%	0.8%	0.39
40-44	40	5.4%	0.7%	0.22	25	4.9%	0.9%	0.14	0	0.0%	0.0%	0.000	65	5.1%	0.8%	0.36
45-49	32	4.3%	0.7%	0.21	19	3.7%	0.8%	0.12	2	14.3%	8.0%	0.013	53	4.2%	0.7%	0.34
50-54	31	4.2%	0.7%	0.22	28	5.5%	1.4%	0.20	1	7.1%	3.8%	0.007	60	4.7%	1.0%	0.43
55-59	18	2.4%	0.5%	0.12	26	5.1%	1.3%	0.18	0	0.0%	0.0%	0.000	44	3.5%	0.8%	0.31
60-64	24	3.2%	0.7%	0.18	15	2.9%	1.0%	0.11	0	0.0%	0.0%	0.000	39	3.1%	0.8%	0.29
65-69	20	2.7%	0.9%	0.19	12	2.4%	1.0%	0.11	1	7.1%	5.0%	0.009	33	2.6%	1.0%	0.31
70-74	14	1.9%	0.9%	0.18	12	2.4%	1.5%	0.15	0	0.0%	0.0%	0.000	26	2.0%	1.1%	0.33
75-79	10	1.3%	1.1%	0.19	3	0.6%	0.6%	0.06	0	0.0%	0.0%	0.000	13	1.0%	0.9%	0.25
80-84	5	0.7%	0.9%	0.15	6	1.2%	2.1%	0.18	0	0.0%	0.0%	0.000	11	0.9%	1.3%	0.32
85+	3	0.4%	0.8%	0.12	0	0.0%	0.0%	0.00	0	0.0%	0.0%	0.000	3	0.2%	0.5%	0.12
Unk	0	0.0%	0.0%	n/a	0	0.0%	0.0%	n/a	0	0.0%	0.0%	n/a	0	0.0%	0.0%	n/a
Total	746	100.0%	13.5%	0.36	510	100.0%	19.2%	0.24	14	100.0%	40.8%	0.007	1,270	100.0%	15.4%	0.61





- Drivers aged 15-24 years had the highest drowsy driving crash rates per licensed drivers.
- Drivers aged 15-24 years had the highest percent of drivers in crashes that were drowsy.

Gender of Drowsy Drivers in Crashes (Utah 2016)

	Drowsy Drivers														
	F	DO Cra	shes	Injury Crashes				Fatal Cra	ashes		Total				
		% of			% of			% of			% of				
		All	% of		All	% of		All	% of		All	% of			
Gender	#	Drivers	Gender	#	Drivers	Gender	#	Drivers	Gender	#	Drivers	Gender			
Male	556	1.3%	74.5%	342	1.8%	66.8%	12	4.1%	85.7%	910	1.4%	71.5%			
Female	190	0.6%	25.5%	170	1.1%	33.2%	2	1.9%	14.3%	362	0.8%	28.5%			
Unknown	0	0.0%	0.0%	0	0.0%	0.0%	0	0.0%	0.0%	0	0.0%	0.0%			
Total	746	1.9%	100.0%	512	2.9%	100.0%	14	6.0%	100.0%	1,272	2.2%	100.0%			

- The majority of drowsy drivers in all motor vehicle crashes (72%) were male.
- Male drivers were 1.8 times more likely to be drowsy in a crash than female drivers.
- Overall, 1.4% of male drivers in crashes were drowsy compared to 0.8% of female drivers in crashes.

Drowsy Driver Crashes by Vehicle Type (Utah 2016)

Drowsy Driver Vehicles													
	Property	y Dama	ge Only	Ir	njury			Fat	al	1	otal		
	All	Dro	owsy	All Drowsy		All Drowsy		All	Dro	wsy			
Vehicle Type	#	#	%	#	#	%	#	#	%	#	#	%	
RV/Motor Home	94	2	2.1%	24	0	0.0%	1	0	0.0%	119	2	1.7%	
Passenger Car	40,778	446	1.1%	18,918	278	1.5%	151	4	2.6%	59,847	728	1.2%	
Van	4,128	31	0.8%	2,080	36	1.7%	13	0	0.0%	6,221	67	1.1%	
Pickup Truck	12,891	106	0.8%	5,016	73	1.5%	81	5	6.2%	17,988	184	1.0%	
SUV	17,169	144	0.8%	7,925	111	1.4%	78	2	2.6%	25,172	257	1.0%	
Heavy Truck	2,917	17	0.6%	767	12	1.6%	26	3	11.5%	3,710	32	0.9%	
Bus	344	0	0.0%	73	1	1.4%	1	0	0.0%	418	1	0.2%	
Motorcycle	175	0	0.0%	972	1	0.1%	41	0	0.0%	1,188	1	0.1%	
Off Road Vehicle	35	0	0.0%	146	0	0.0%	9	0	0.0%	190	0	0.0%	
Other	43	0	0.0%	13	0	0.0%	2	0	0.0%	58	0	0.0%	
Unknown	1,241	0	0.0%	192	0	0.0%	8	0	0.0%	1,441	0	0.0%	
Total	79,815	746	0.9%	36,126	512	1.4%	411	14	3.4%	116,352	1,272	1.1%	

Overall, RV/motorhome and passenger car had the highest percentages of drowsy driver vehicles in crashes.

Drowsy Driver Crashes by Day of Week (Utah 2016)

	Drowsy Driver Crashes													
Day of	PDO 0	Crashes	Crashes	To	otal									
Week	#	%	#	%	#	%	#	%						
Sunday	98	13.1%	64	12.5%	1	7.1%	163	12.8%						
Monday	90	12.1%	79	15.5%	1	7.1%	170	13.4%						
Tuesday	105	14.1%	65	12.7%	3	21.4%	173	13.6%						
Wednesday	116	15.5%	82	16.0%	3	21.4%	201	15.8%						
Thursday	112	15.0%	71	13.9%	3	21.4%	186	14.6%						
Friday	101	13.5%	76	14.9%	1	7.1%	178	14.0%						
Saturday	124	16.6%	74	14.5%	2	14.3%	200	15.7%						
Total	746	100.0%	511	100.0%	14	100.0%	1,271	100.0%						

Overall, the highest percentage of drowsy driver crashes occurred on Wednesday and Saturday.

Drowsy Driver Crashes by Month (Utah 2016)

Drowsy Driver Crashes PDO Crashes Injury Crashes Fatal Crashes Total												
	PDO (Crashes	Crashes	Т	otal							
		Rate		Rate		Rate		Rate				
Month	#	per Day	#	per Day	#	per Day	#	per Day				
January	41	1.3	25	0.8	1	0.03	67	2.2				
February	45	1.6	23	0.8	1	0.03	69	2.4				
March	49	1.6	39	1.3	1	0.03	89	2.9				
April	68	2.3	43	1.4	1	0.03	112	3.7				
May	71	2.3	43	1.4	2	0.06	116	3.7				
June	91	3.0	54	1.8	4	0.13	149	5.0				
July	74	2.4	67	2.2	1	0.03	142	4.6				
August	72	2.3	44	1.4	1	0.03	117	3.8				
September	57	1.9	48	1.6	0	0.00	105	3.5				
October	71	2.3	44	1.4	0	0.00	115	3.7				
November	56	1.9	45	1.5	2	0.07	103	3.4				
December	51	1.6	36	1.2	0	0.00	87	2.8				
Total	746	2.0	511	1.4	14	0.04	1,271	3.5				

- Overall, the highest rate per day of drowsy driver crashes occurred in June (5.0) and July (4.6).
- Overall, the lowest rate per day of drowsy driver crashes occurred in January (2.2) and February (2.4).

Drowsy Driver Crashes Day of Week Tota													
			Day	of We	ek			Total					
Hour	Sun	Mon	Tue	Wed	Thu	Fri	Sat	#					
Midnight	9	6	3	9	9	9	12	57					
1 a.m.	14	6	8	6	3	7	9	53					
2 a.m.	13	6	5	8	7	3	7	49					
3 a.m.	11	2	5	6	6	10	13	53					
4 a.m.	9	10	12	8	5	10	12	66					
5 a.m.	9	10	7	12	13	8	8	67					
6 a.m.	11	13	11	9	12	11	17	84					
7 a.m.	18	13	16	12	9	12	15	95					
8 a.m.	10	11	10	11	17	8	13	80					
9 a.m.	8	4	5	8	3	7	10	45					
10 a.m.	1	5	2	6	6	5	6	31					
11 a.m.	1	6	2	5	5	1	4	24					
Noon	4	4	10	4	4	5	7	38					
1 p.m.	2	8	6	10	8	8	15	57					
2 p.m.	6	13	10	11	5	5	12	62					
3 p.m.	3	10	14	15	10	3	9	64					
4 p.m.	8	6	10	15	12	17	7	75					
5 p.m.	4	12	19	8	22	12	7	84					
6 p.m.	5	6	6	13	8	6	5	49					
7 p.m.	3	5	2	6	5	8	4	33					
8 p.m.	2	2	1	6	4	5	1	21					
9 p.m.	3	6	1	1	6	4	3	24					
10 p.m.	3	4	3	5	4	8	1	28					
11 p.m.	6	2	4	8	3	6	3	32					
Total	163	170	172	202	186	178	200	1,271					

Drowsy Driver Crashes by Day of Week and Hour (Utah 2016)

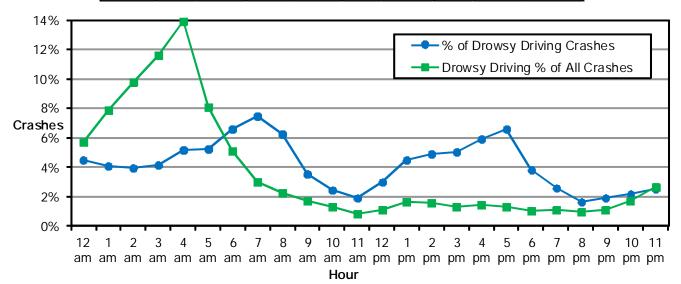
• Drowsy driver crashes were highest everyday from 6:00-8:59 a.m., everyday from 2:00-5:59 p.m., and weekends 12:00-3:59 a.m.





Drowsy Driver Crashes by Hour (Utah 2016)

Drowsy Driver Crashes									
	PDO Crashes		Injury Crashes		Fatal Crashes		Total		
									% of All
Hour	#	%	#	%	#	%	#	%	Crashes
Midnight	31	4.2%	26	5.1%	0	0.0%	57	4.5%	5.7%
1 a.m.	25	3.4%	26	5.1%	1	7.1%	52	4.1%	7.9%
2 a.m.	31	4.2%	18	3.5%	1	7.1%	50	3.9%	9.8%
3 a.m.	30	4.0%	21	4.1%	2	14.3%	53	4.2%	11.6%
4 a.m.	43	5.8%	23	4.5%	0	0.0%	66	5.2%	13.9%
5 a.m.	39	5.2%	26	5.1%	2	14.3%	67	5.3%	8.1%
6 a.m.	59	7.9%	25	4.9%	0	0.0%	84	6.6%	5.1%
7 a.m.	47	6.3%	48	9.4%	0	0.0%	95	7.5%	3.0%
8 a.m.	50	6.7%	28	5.5%	2	14.3%	80	6.3%	2.2%
9 a.m.	27	3.6%	17	3.3%	1	7.1%	45	3.5%	1.7%
10 a.m.	21	2.8%	10	2.0%	0	0.0%	31	2.4%	1.3%
11 a.m.	14	1.9%	10	2.0%	0	0.0%	24	1.9%	0.8%
Noon	24	3.2%	13	2.5%	1	7.1%	38	3.0%	1.1%
1 p.m.	26	3.5%	30	5.9%	1	7.1%	57	4.5%	1.6%
2 p.m.	39	5.2%	23	4.5%	0	0.0%	62	4.9%	1.6%
3 p.m.	37	5.0%	27	5.3%	0	0.0%	64	5.0%	1.3%
4 p.m.	40	5.4%	35	6.8%	0	0.0%	75	5.9%	1.4%
5 p.m.	51	6.8%	32	6.3%	1	7.1%	84	6.6%	1.3%
6 p.m.	28	3.8%	21	4.1%	0	0.0%	49	3.9%	1.0%
7 p.m.	19	2.5%	13	2.5%	1	7.1%	33	2.6%	1.1%
8 p.m.	10	1.3%	10	2.0%	1	7.1%	21	1.7%	0.9%
9 p.m.	16	2.1%	8	1.6%	0	0.0%	24	1.9%	1.1%
10 p.m.	19	2.5%	9	1.8%	0	0.0%	28	2.2%	1.7%
11 p.m.	20	2.7%	12	2.3%	0	0.0%	32	2.5%	2.7%
Total	746	100.0%	511	100.0%	14	100.0%	1,271	100.0%	2.0%



- Drowsy driver total crashes were highest during the hours of 6:00-8:59 a.m. and 4:00-5:59 p.m.
- The percent of crashes involving drowsy drivers was highest during the hours of 12:00-6:59 a.m.