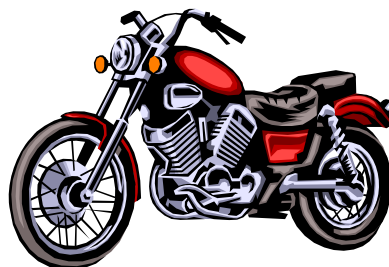


Motorcycles



DRIVE AWARE. RIDE AWARE.



Section 10: Motorcycles

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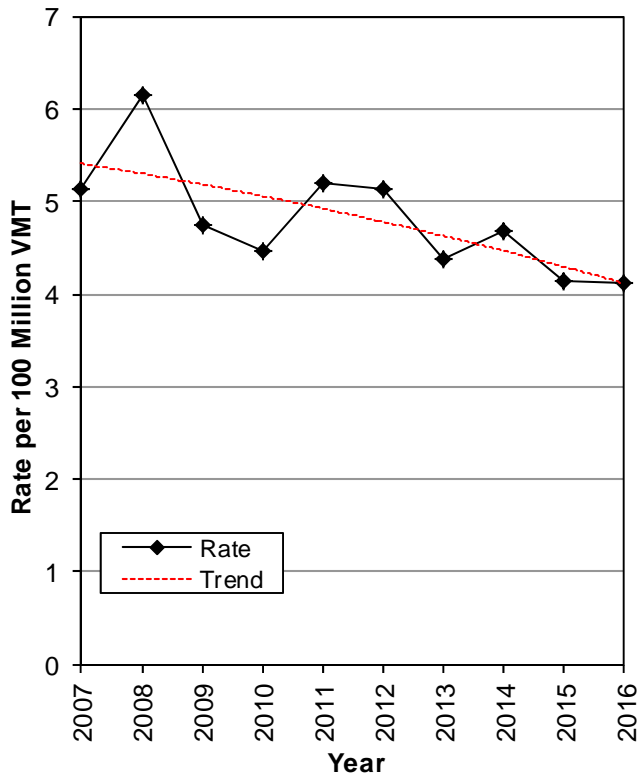
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Trends

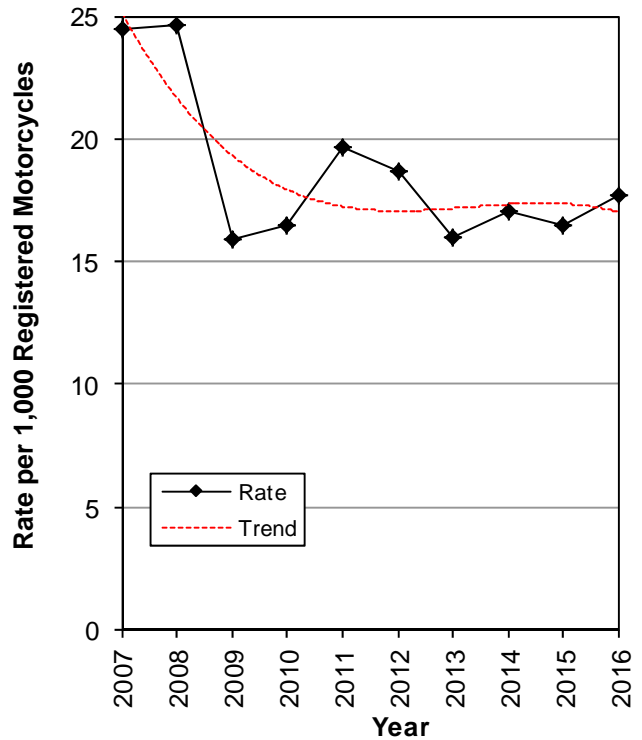
Motorcyclists in Crashes (Utah 2007-2016)

Year	Motorcyclists (Driver and Passenger)											
	Non-Injured			Injured			Killed			Total		
	#	Rate per 100 Million VMT	Rate per 1,000 Rgstrd Mtrcycls	#	Rate per 100 Million VMT	Rate per 1,000 Rgstrd Mtrcycls	#	Rate per 100 Million VMT	Rate per 1,000 Rgstrd Mtrcycls	#	Rate per 100 Million VMT	Rate per 1,000 Registered Motorcycles
2007	269	1.0	4.8	1,076	4.0	19.2	33	0.12	0.59	1,378	5.14	24.5
2008	255	1.0	4.0	1,301	5.0	20.2	36	0.14	0.56	1,592	6.15	24.7
2009	232	0.9	3.0	980	3.7	12.5	30	0.11	0.38	1,242	4.74	15.9
2010	190	0.7	2.6	979	3.7	13.6	21	0.08	0.29	1,190	4.47	16.5
2011	228	0.9	3.3	1,117	4.2	16.0	28	0.11	0.40	1,373	5.20	19.7
2012	225	0.8	3.1	1,111	4.2	15.2	32	0.12	0.44	1,368	5.14	18.7
2013	204	0.8	2.7	951	3.5	12.8	31	0.11	0.42	1,186	4.39	16.0
2014	206	0.7	2.7	1,043	3.8	13.8	45	0.16	0.60	1,294	4.69	17.1
2015	202	0.7	2.7	979	3.3	13.3	36	0.12	0.49	1,217	4.14	16.5
2016	215	0.7	3.0	1,014	3.3	14.1	41	0.13	0.57	1,270	4.13	17.7
Total	2,226	0.8	3.1	10,551	3.9	14.9	333	0.12	0.47	13,110	4.80	18.5

Motorcyclist Crash Rates per VMT (Utah 2007-2016)



Motorcyclist Crash Rates per Registered Motorcycles (Utah 2007-2016)



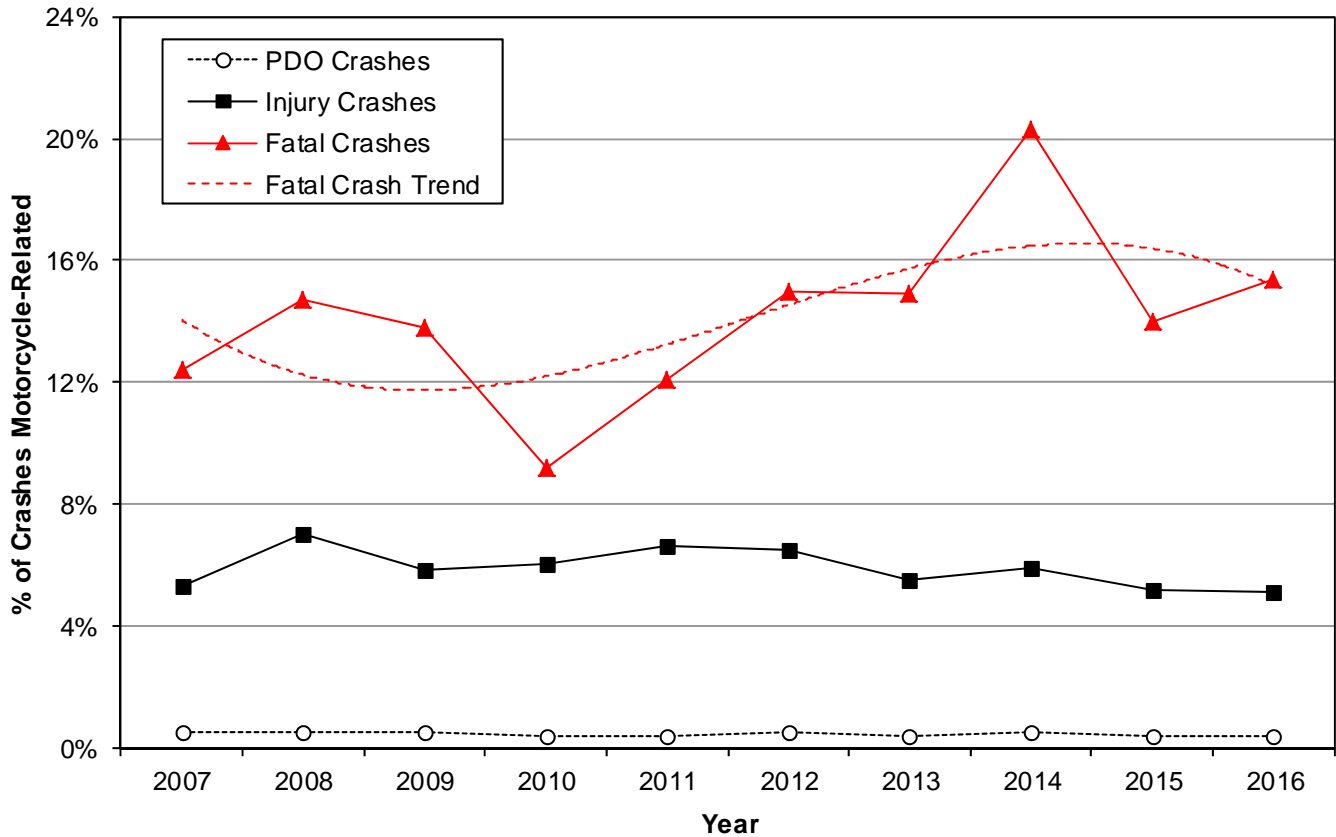
- 2016 had the lowest (4.13) rate of total motorcyclists in crashes per 100 million VMT.
- 2008 had the highest (6.15) rate of total motorcyclists in crashes per 100 million VMT.
- The rate of motorcyclists in crashes per registered motorcycle decreased 28% from 2007 to 2016.
- 2008 had the highest (24.7) rate of total motorcyclists in crashes per registered motorcycle.

Trends

Motorcycle Crashes (Utah 2007-2016)

Year	Property Damage Only			Injury			Fatal			Total		
	All	Motorcycle	%	All	Motorcycle	%	All	Motorcycle	%	All	Motorcycle	%
	#	#	%	#	#	%	#	#	%	#	#	%
2007	42,368	199	0.5%	18,619	984	5.3%	258	32	12.4%	61,245	1,215	2.0%
2008	38,997	177	0.5%	17,125	1,192	7.0%	245	36	14.7%	56,367	1,405	2.5%
2009	35,398	182	0.5%	15,752	914	5.8%	217	30	13.8%	51,367	1,126	2.2%
2010	34,155	137	0.4%	14,995	892	5.9%	218	20	9.2%	49,368	1,049	2.1%
2011	36,418	161	0.4%	15,645	1,038	6.6%	224	27	12.1%	52,287	1,226	2.3%
2012	34,635	175	0.5%	15,765	1,024	6.5%	200	30	15.0%	50,600	1,229	2.4%
2013	39,301	145	0.4%	16,134	894	5.5%	202	30	14.9%	55,637	1,069	1.9%
2014	37,388	172	0.5%	16,426	962	5.9%	222	45	20.3%	54,036	1,179	2.2%
2015	42,089	167	0.4%	17,665	913	5.2%	258	36	14.0%	60,012	1,116	1.9%
2016	43,465	173	0.4%	18,747	955	5.1%	259	40	15.4%	62,471	1,168	1.9%
Total	384,214	1,688	0.4%	166,873	9,768	5.9%	2,303	326	14.2%	553,390	11,782	2.1%

Percent of Crashes Involving a Motorcycle (Utah 2007-2016)

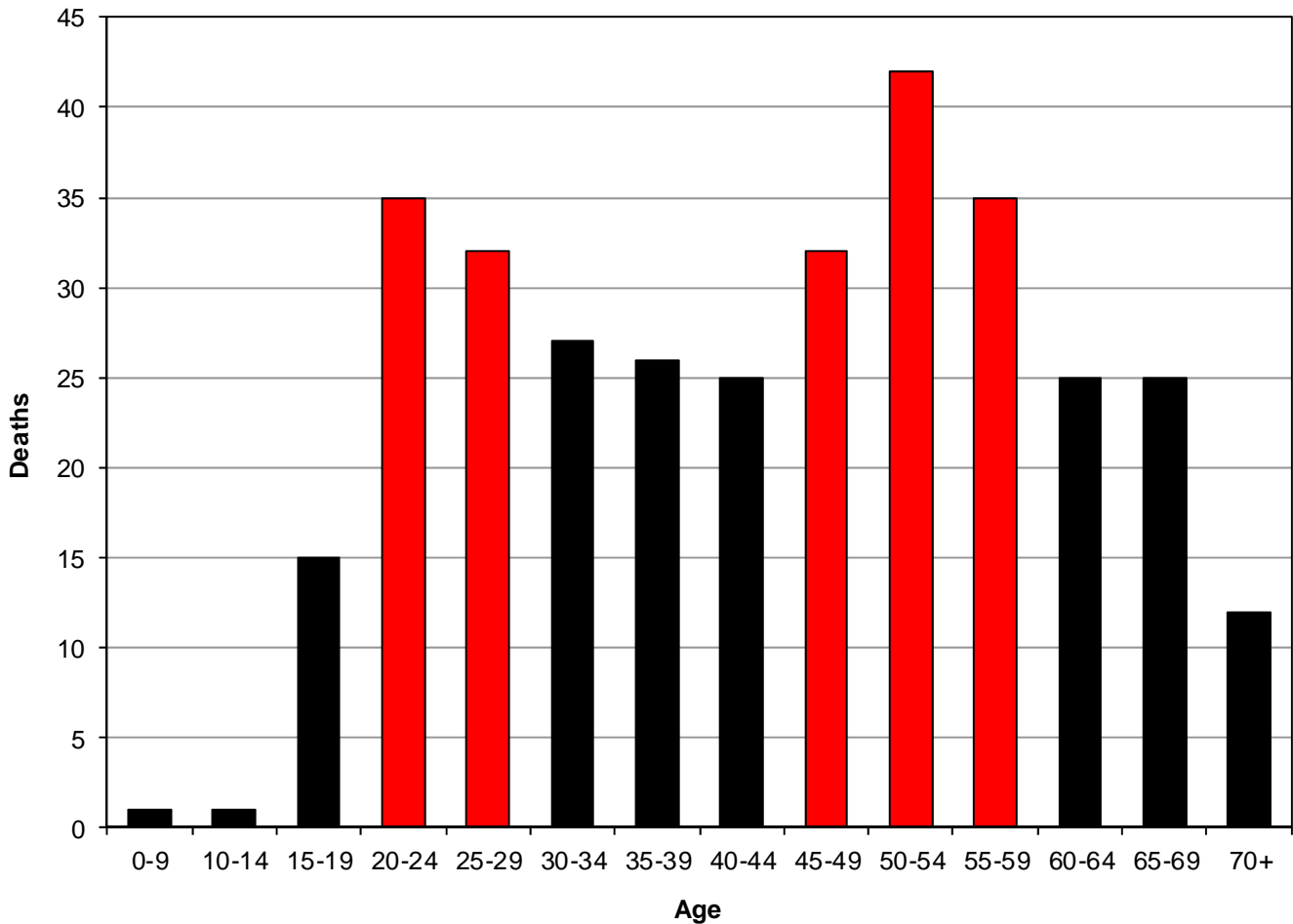


- The 10-year trend shows that motorcycle crashes represent 0.4% of property damage only crashes, 5.9% of injury crashes, and 14.2% of fatal crashes.
- Motorcycles are over-represented in fatal crashes and injury crashes accounting for 14.2% of fatal crashes and 5.9% of injury crashes compared to 2.1% of total crashes.
- During the last 10 years, the highest percent of total crashes involving motorcycles occurred in 2008 (2.5%).

Trends

Motorcyclists Killed by Age (Utah 2007-2016)

Motorcyclists Killed												
Age	Year										Total	
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	#	%
0-9	0	0	0	0	0	1	0	0	0	0	1	0.3%
10-14	0	1	0	0	0	0	0	0	0	0	1	0.3%
15-19	4	1	1	0	0	1	1	2	3	2	15	4.5%
20-24	7	6	0	2	1	6	1	4	4	4	35	10.5%
25-29	1	7	3	3	3	2	3	4	3	3	32	9.6%
30-34	1	3	2	4	4	3	1	2	2	5	27	8.1%
35-39	0	5	1	1	2	2	3	5	4	3	26	7.8%
40-44	2	2	2	1	1	2	8	1	2	4	25	7.5%
45-49	4	3	6	1	4	2	3	4	3	2	32	9.6%
50-54	4	5	5	1	3	2	2	10	7	3	42	12.6%
55-59	2	0	4	5	5	6	3	2	3	5	35	10.5%
60-64	2	2	4	0	4	4	2	5	1	1	25	7.5%
65-69	5	1	1	3	0	1	2	2	3	7	25	7.5%
70+	1	0	1	0	1	0	2	4	1	2	12	3.6%
Total	33	36	30	21	28	32	31	45	36	41	333	100.0%

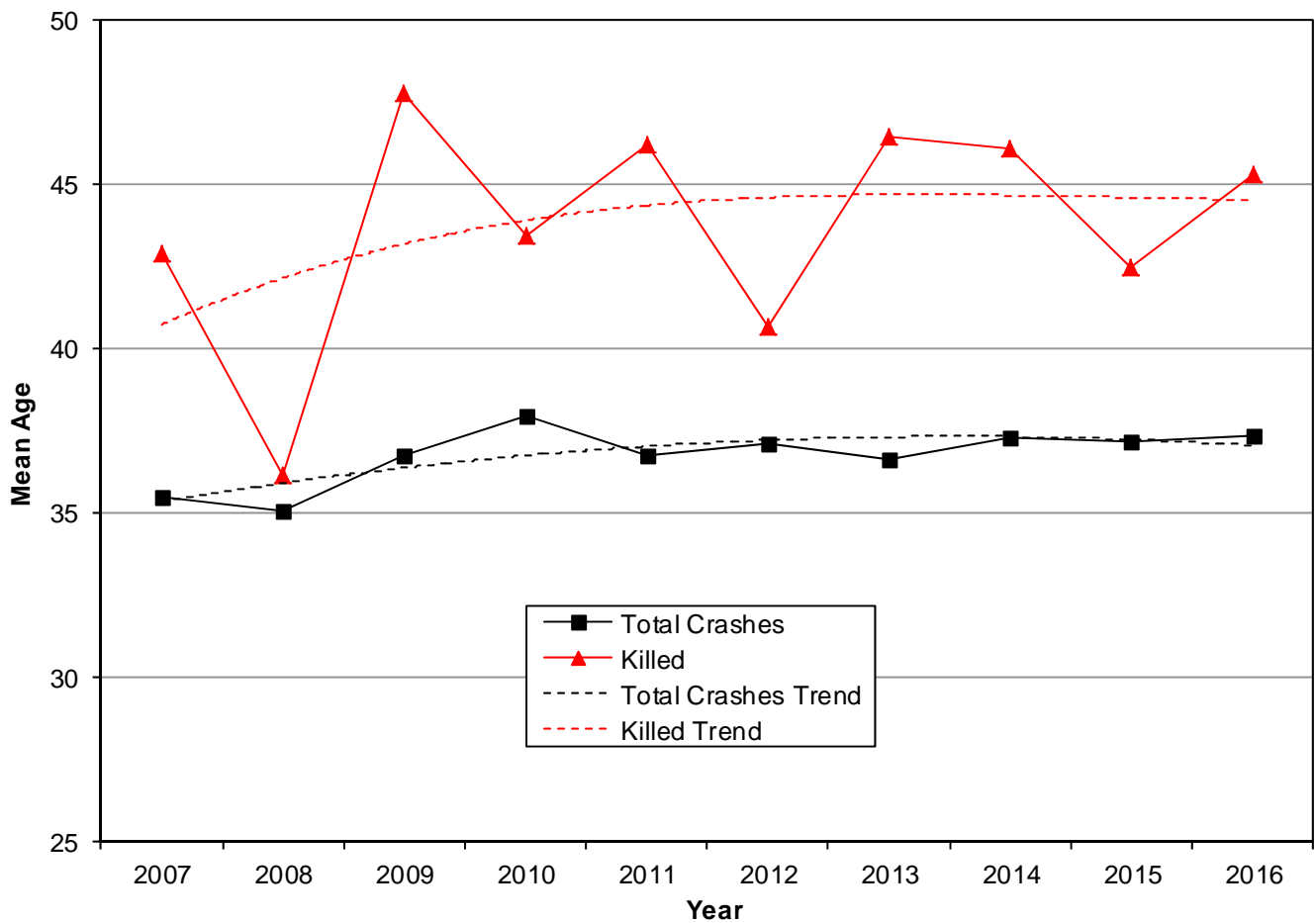


- The 10-year totals show that motorcyclist deaths were highest among the 45-59 and 20-29 year age groups.

Trends

Motorcyclists in Crashes by Age (Utah 2007-2016)

Motorcyclists (Driver and Passenger)		
Year	Total	Killed
	Mean Age	Mean Age
2007	35.45	42.88
2008	35.02	36.14
2009	36.72	47.80
2010	37.97	43.43
2011	36.73	46.18
2012	37.11	40.63
2013	36.64	46.45
2014	37.29	46.11
2015	37.17	42.47
2016	37.33	45.32
Average	36.74	43.74

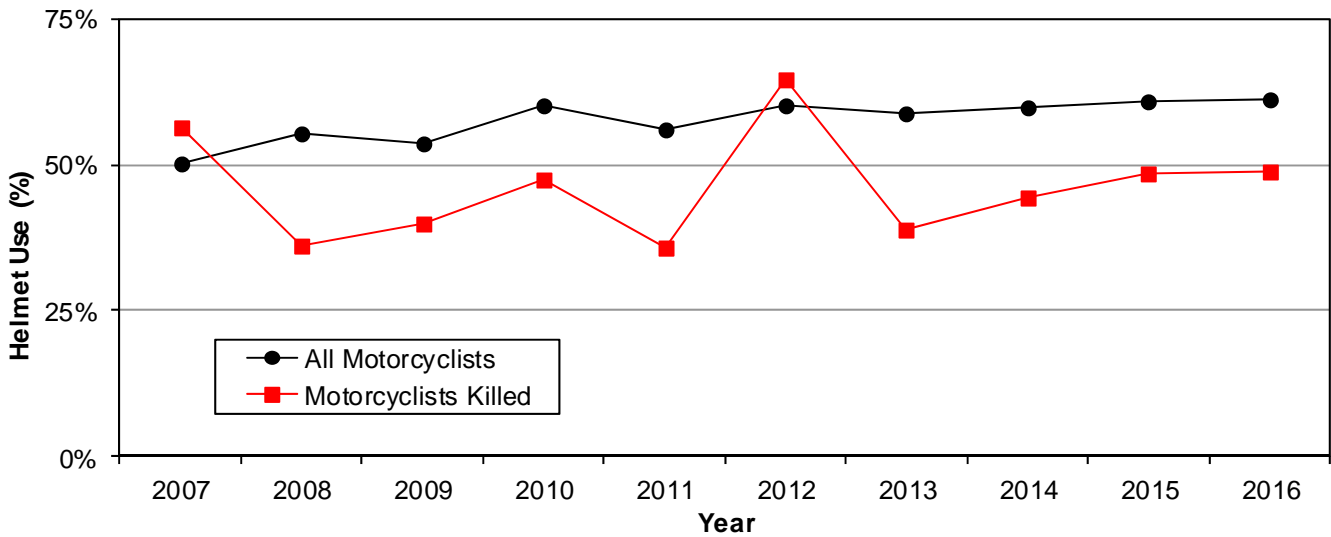


- The 10-year trend shows that the age of motorcyclists in crashes is steadily increasing. Increasing from 35.45 in 2006 to 37.33 in 2016.
- The 10-year trend shows that the age of motorcyclists killed in crashes is steadily increasing. Increasing from 42.88 in 2007 to 45.32 in 2016.

Helmets

Helmet Use of Motorcyclists in Crashes (Utah 2007-2016)

Motorcyclists (Driver and Passenger)												
Year	Non-Injured			Injured			Killed			Total		
	No Hlmt	Helmet	%	No Hlmt	Helmet	%	No Hlmt	Helmet	%	No Helmet	Helmet	%
	#	#	%	#	#	%	#	#	%	#	#	%
2007	70	90	56.3%	513	497	49.2%	14	18	56.3%	597	605	50.3%
2008	56	156	73.6%	569	629	52.5%	23	13	36.1%	648	798	55.2%
2009	51	95	65.1%	436	476	52.2%	18	12	40.0%	505	583	53.6%
2010	48	84	63.6%	359	534	59.8%	11	10	47.6%	418	628	60.0%
2011	78	91	53.8%	444	586	56.9%	18	10	35.7%	540	687	56.0%
2012	57	113	66.5%	417	597	58.9%	11	20	64.5%	485	730	60.1%
2013	49	92	65.2%	350	491	58.4%	19	12	38.7%	418	595	58.7%
2014	54	111	67.3%	411	596	59.2%	25	20	44.4%	490	727	59.7%
2015	70	88	55.7%	360	587	62.0%	17	16	48.5%	447	691	60.7%
2016	64	111	63.4%	382	600	61.1%	20	19	48.7%	466	730	61.0%
Total	597	1,031	63.3%	4,241	5,593	56.9%	176	150	46.0%	5,014	6,774	57.5%



- Overall helmet use by motorcyclists in crashes increased from 54.5% in 2006 to 60.7% in 2015.
- Helmet use among motorcyclists killed has shown an increasing trend.

Helmet Use of Motorcyclists in Crashes (Utah 2016)

Motorcyclists (Driver and Passenger)								
Helmet Use	Non-Injured		Injured		Killed		Total	
	#	%	#	%	#	%	#	%
Helmet Worn	111	51.6%	600	59.2%	19	46.3%	730	57.5%
Helmet Not Worn	64	29.8%	382	37.7%	20	48.8%	466	36.7%
Unknown	40	18.6%	32	3.2%	2	4.9%	74	5.8%
Total	215	100.0%	1,014	100.0%	41	100.0%	1,270	100.0%



- Only 61% (of known) of the motorcyclists in crashes wore a helmet.
- Only 19 of the 41 motorcyclists killed in crashes (46%) were wearing a helmet.

Motorcycle Crash Conditions

Motorcyclists in Crashes by County (Utah 2016)

Motorcyclists (Driver and Passenger)												
County	Non-Injured			Injured			Killed			Total		
	#	Rate per 100 Million VMT	Rate per 1,000 Rgstrd Mtrcycl	#	Rate per 100 Million VMT	Rate per 1,000 Rgstrd Mtrcycl	#	Rate per 100 Million VMT	Rate per 1,000 Rgstrd Mtrcycl	#	Rate per 100 Million VMT	Rate per 1,000 Rgstrd Mtrcycl
Rich	2	3.6	34.5	10	18.2	172.4	0	0.00	0.00	12	21.8	206.9
Piute	1	3.1	34.5	4	12.3	137.9	0	0.00	0.00	5	15.3	172.4
Garfield	2	1.5	18.2	12	9.2	109.1	0	0.00	0.00	14	10.8	127.3
Wayne	0	0.0	0.0	10	18.3	109.9	0	0.00	0.00	10	18.3	109.9
Daggett	1	2.9	38.5	0	0.0	0.0	1	2.88	38.46	2	5.8	76.9
Beaver	0	0.0	0.0	6	2.0	57.7	0	0.00	0.00	6	2.0	57.7
San Juan	0	0.0	0.0	9	2.7	39.6	1	0.30	4.41	10	3.0	44.1
Grand	3	0.7	5.8	10	2.5	19.4	0	0.00	0.00	13	3.2	25.2
Iron	7	0.8	6.8	16	1.9	15.5	2	0.24	1.94	25	3.0	24.2
Wasatch	3	0.7	3.4	15	3.7	16.8	2	0.50	2.23	20	5.0	22.3
Washington	12	0.7	2.5	91	5.5	18.9	3	0.18	0.62	106	6.4	22.0
Morgan	1	0.7	3.1	5	3.4	15.6	1	0.67	3.12	7	4.7	21.8
Emery	0	0.0	0.0	3	0.8	15.9	1	0.26	5.29	4	1.0	21.2
Salt Lake	102	1.0	4.0	381	3.9	15.1	14	0.14	0.56	497	5.0	19.7
Uintah	6	1.4	5.6	13	3.0	12.1	0	0.00	0.00	19	4.3	17.7
Weber	16	0.9	2.5	91	5.1	14.2	3	0.17	0.47	110	6.1	17.2
Box Elder	2	0.2	1.4	22	2.2	15.3	0	0.00	0.00	24	2.4	16.7
Millard	1	0.2	4.1	3	0.5	12.4	0	0.00	0.00	4	0.7	16.5
Cache	11	1.1	3.6	33	3.3	10.9	3	0.30	0.99	47	4.7	15.6
Tooele	5	0.6	2.9	20	2.2	11.6	1	0.11	0.58	26	2.9	15.1
Utah	19	0.4	1.6	149	3.2	12.7	1	0.02	0.09	169	3.6	14.4
Kane	1	0.6	4.7	2	1.2	9.3	0	0.00	0.00	3	1.8	14.0
Summit	4	0.5	2.5	17	2.0	10.6	0	0.00	0.00	21	2.5	13.1
Juab	1	0.2	4.3	2	0.4	8.5	0	0.00	0.00	3	0.7	12.8
Sevier	1	0.3	2.4	3	0.8	7.1	1	0.27	2.37	5	1.4	11.8
Davis	12	0.4	1.4	74	2.5	8.8	7	0.24	0.83	93	3.1	11.1
Sanpete	1	0.4	2.2	4	1.6	8.7	0	0.00	0.00	5	2.0	10.9
Carbon	1	0.3	1.6	5	1.4	7.9	0	0.00	0.00	6	1.7	9.4
Duchesne	0	0.0	0.0	4	1.2	7.6	0	0.00	0.00	4	1.2	7.6
Statewide	215	0.7	3.0	1,014	3.3	14.1	41	0.13	0.57	1,270	4.1	17.7

- Rich, Piute, and Garfield counties had the highest rates of motorcyclists in crashes per registered motorcycle and Rich, Wayne, and Piute counties had the highest rates of motorcyclists in crashes per VMT.

Occupant Placement of Motorcyclists in Crashes (Utah 2016)

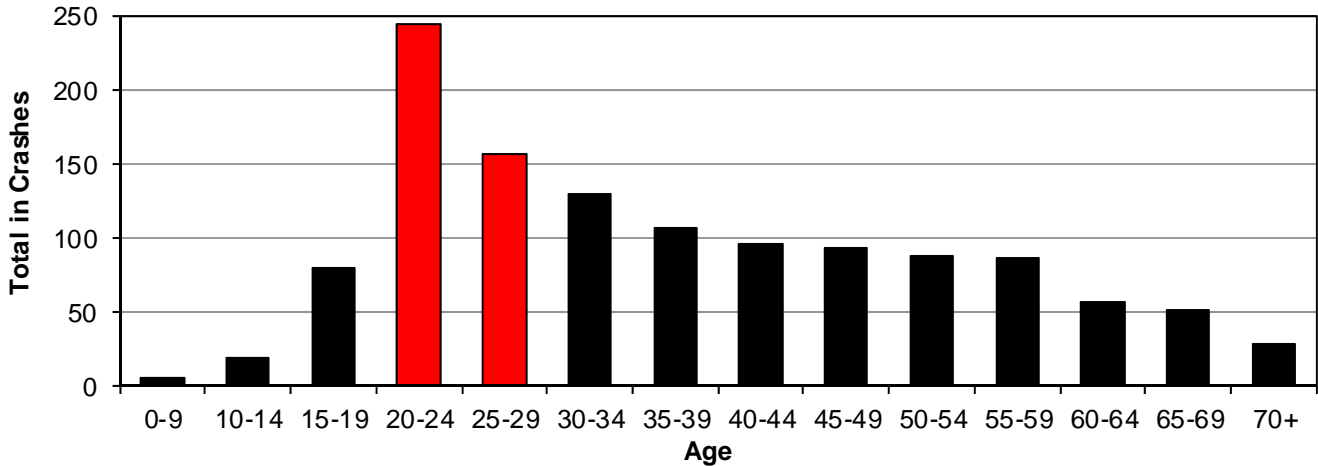
- Drivers accounted for the majority of motorcyclists in a crash (92%) and motorcyclists killed (95%).

Motorcyclists (Driver and Passenger)									
Occupant Placement	Non-Injured		Injured		Killed		Total		
	#	%	#	%	#	%	#	%	
Driver	200	93.0%	935	92.2%	39	95.1%	1,174	92.4%	
Passenger	15	7.0%	79	7.8%	2	4.9%	96	7.6%	
Total	215	100.0%	1,014	100.0%	41	100.0%	1,270	100.0%	

Motorcycle Crash Conditions

Age of Motorcyclists in Crashes (Utah 2016)

Motorcyclists (Driver and Passenger)								
Age	Non-Injured		Injured		Killed		Total	
	#	%	#	%	#	%	#	%
0-9	1	0.5%	4	45.0%	0	0.0%	5	0.4%
10-14	2	0.9%	16	1.6%	0	0.0%	18	1.4%
15-19	12	5.6%	65	6.4%	2	4.9%	79	6.2%
20-24	43	20.0%	197	19.4%	4	9.8%	244	19.2%
25-29	30	14.0%	124	12.2%	3	7.3%	157	12.4%
30-34	15	7.0%	110	10.8%	5	12.2%	130	10.2%
35-39	14	6.5%	89	8.8%	3	7.3%	106	8.3%
40-44	18	8.4%	74	7.3%	4	9.8%	96	7.6%
45-49	17	7.9%	74	7.3%	2	4.9%	93	7.3%
50-54	9	4.2%	76	7.5%	3	7.3%	88	6.9%
55-59	13	6.0%	68	6.7%	5	12.2%	86	6.8%
60-64	12	5.6%	44	4.3%	1	2.4%	57	4.5%
65-69	7	3.3%	37	3.6%	7	17.1%	51	4.0%
70+	7	3.3%	19	1.9%	2	4.9%	28	2.2%
Unknown	15	7.0%	17	1.7%	0	0.0%	32	2.5%
Total	215	100.0%	1,014	144.6%	41	100.0%	1,270	100.0%



- Overall, the largest percentages of motorcyclists in crashes were aged 20-29 years (32%).
- The highest number of motorcyclist deaths were aged 65-69 years.

Gender of Motorcyclists in Crashes (Utah 2016)

Motorcyclists (Driver and Passenger)								
Gender	Non-Injured		Injured		Killed		Total	
	#	%	#	%	#	%	#	%
Male	179	83.3%	881	86.9%	38	92.7%	1,098	86.5%
Female	24	11.2%	130	12.8%	3	7.3%	157	12.4%
Unknown	12	5.6%	3	0.3%	0	0.0%	15	1.2%
Total	215	100.0%	1,014	100.0%	41	100.0%	1,270	100.0%

- The majority of all motorcyclists (87%) and motorcyclists killed (93%) in crashes were male.

Motorcycle Crash Conditions

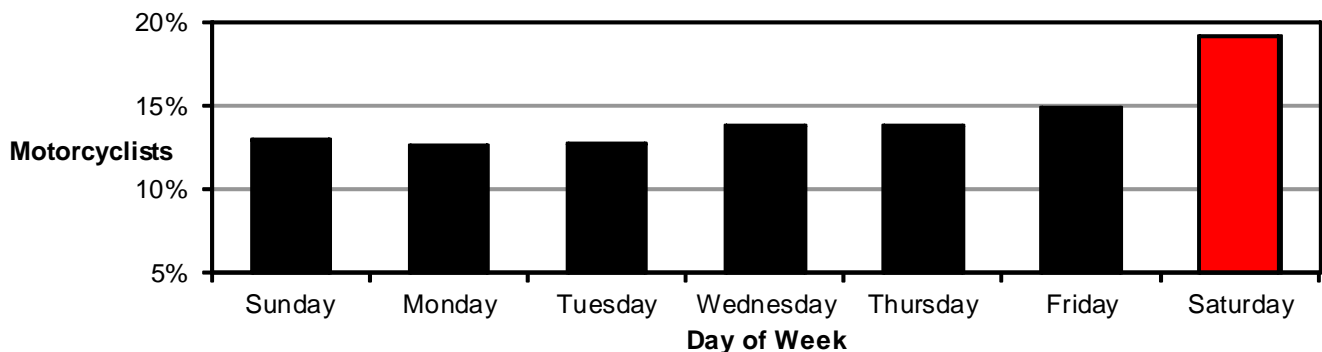
Motorcyclists in Crashes by Month (Utah 2016)

Motorcyclists (Driver and Passenger)								
Month	Non-Injured		Injured		Killed		Total	
	#	Rate per Day	#	Rate per Day	#	Rate per Day	#	Rate per Day
January	4	0.1	14	0.5	0	0.00	18	0.6
February	5	0.2	30	1.0	0	0.00	35	1.2
March	8	0.3	37	1.2	2	0.06	47	1.5
April	25	0.8	97	3.2	4	0.13	126	4.2
May	24	0.8	108	3.5	5	0.16	137	4.4
June	27	0.9	144	4.8	4	0.13	175	5.8
July	38	1.2	147	4.7	5	0.16	190	6.1
August	22	0.7	149	4.8	6	0.19	177	5.7
September	29	1.0	134	4.5	7	0.23	170	5.7
October	24	0.8	94	3.0	5	0.16	123	4.0
November	5	0.2	47	1.6	3	0.10	55	1.8
December	4	0.1	13	0.4	0	0.00	17	0.5
Total	215	0.6	1,014	2.8	41	0.11	1,270	3.5

- June through September had the highest rates per day of total motorcycle crashes.
- September and August had the highest totals of motorcyclists killed.

Motorcyclists in Crashes by Day of Week (Utah 2016)

Motorcyclists (Driver and Passenger)								
Day of Week	Non-Injured		Injured		Killed		Total	
	#	%	#	%	#	%	#	%
Sunday	19	8.8%	139	13.7%	7	17.1%	165	13.0%
Monday	27	12.6%	128	12.6%	5	12.2%	160	12.6%
Tuesday	24	11.2%	133	13.1%	5	12.2%	162	12.8%
Wednesday	36	16.7%	134	13.2%	5	12.2%	175	13.8%
Thursday	31	14.4%	137	13.5%	7	17.1%	175	13.8%
Friday	34	15.8%	150	14.8%	5	12.2%	189	14.9%
Saturday	44	20.5%	193	19.0%	7	17.1%	244	19.2%
Total	215	100.0%	1,014	100.0%	41	100.0%	1,270	100.0%

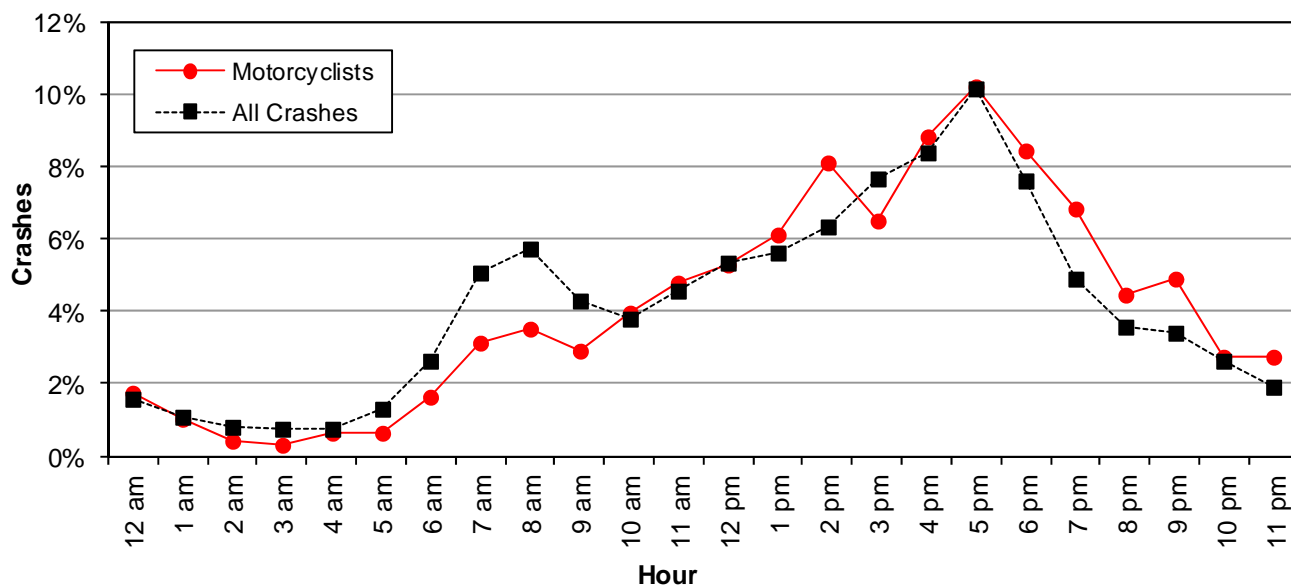


- Saturday had the highest number of motorcyclists in total crashes.
- Fatal motorcycle crashes occurred most frequently on Sunday, Thursday, and Saturday.

Motorcycle Crash Conditions

Motorcyclists in Crashes by Hour (Utah 2016)

Motorcyclists (Driver and Passenger)								
Hour	Non-Injured		Injured		Killed		Total	
	#	%	#	%	#	%	#	%
Midnight	4	1.9%	17	1.7%	1	2.4%	22	1.7%
1 a.m.	1	0.5%	12	1.2%	0	0.0%	13	1.0%
2 a.m.	0	0.0%	3	0.3%	2	4.9%	5	0.4%
3 a.m.	0	0.0%	3	0.3%	1	2.4%	4	0.3%
4 a.m.	0	0.0%	7	0.7%	1	2.4%	8	0.6%
5 a.m.	2	0.9%	6	0.6%	0	0.0%	8	0.6%
6 a.m.	6	2.8%	14	1.4%	1	2.4%	21	1.7%
7 a.m.	8	3.7%	31	3.1%	1	2.4%	40	3.1%
8 a.m.	7	3.3%	37	3.6%	1	2.4%	45	3.5%
9 a.m.	11	5.1%	26	2.6%	0	0.0%	37	2.9%
10 a.m.	8	3.7%	41	4.0%	1	2.4%	50	3.9%
11 a.m.	12	5.6%	48	4.7%	1	2.4%	61	4.8%
Noon	14	6.5%	51	5.0%	2	4.9%	67	5.3%
1 p.m.	12	5.6%	61	6.0%	5	12.2%	78	6.1%
2 p.m.	16	7.4%	83	8.2%	4	9.8%	103	8.1%
3 p.m.	13	6.0%	66	6.5%	4	9.8%	83	6.5%
4 p.m.	15	7.0%	93	9.2%	4	9.8%	112	8.8%
5 p.m.	15	7.0%	113	11.1%	2	4.9%	130	10.2%
6 p.m.	23	10.7%	82	8.1%	2	4.9%	107	8.4%
7 p.m.	14	6.5%	72	7.1%	1	2.4%	87	6.9%
8 p.m.	11	5.1%	45	4.4%	1	2.4%	57	4.5%
9 p.m.	9	4.2%	49	4.8%	4	9.8%	62	4.9%
10 p.m.	5	2.3%	30	3.0%	0	0.0%	35	2.8%
11 p.m.	9	4.2%	24	2.4%	2	4.9%	35	2.8%
Total	215	100.0%	1,014	100.0%	41	100.0%	1,270	100.0%



- Over one-half (55%) of total motorcycle crashes occurred between 1:00 p.m. and 7:59 p.m.
- Motorcycle crashes were more likely to occur in the afternoon and evening than other crashes.

Motorcycle Crash Conditions

Motorcycle Driver Age (Utah 2016)

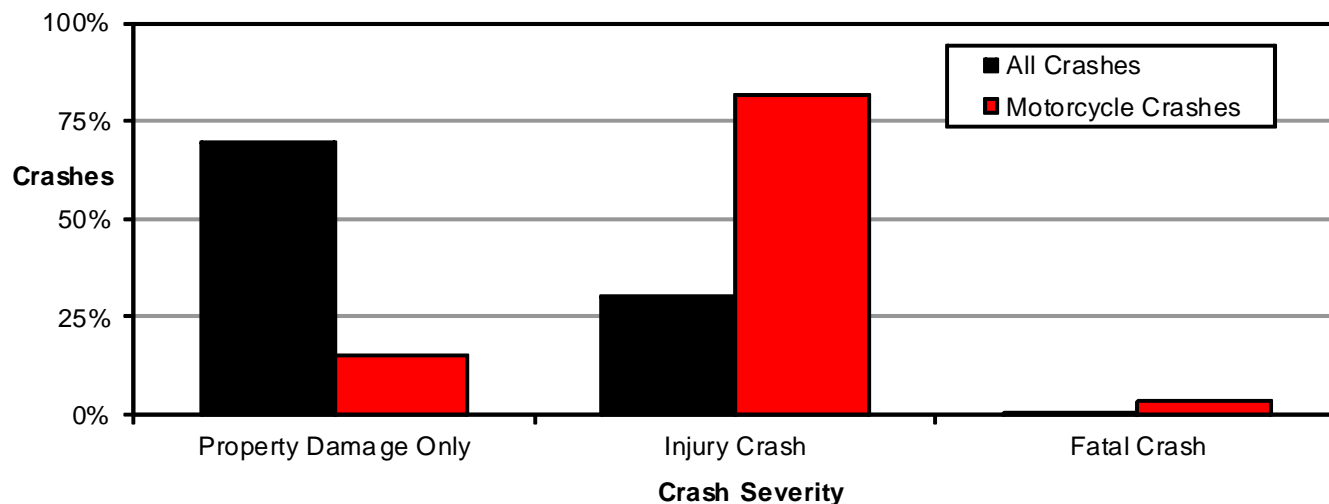
Motorcycle Drivers								
Age	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
<15	1	0.6%	15	1.5%	1	2.4%	17	1.4%
15-19	8	4.9%	61	6.3%	2	4.9%	71	6.0%
20-24	39	23.8%	193	19.9%	4	9.8%	236	20.1%
25-29	22	13.4%	116	12.0%	3	7.3%	141	12.0%
30-34	10	6.1%	103	10.6%	5	12.2%	118	10.1%
35-39	10	6.1%	87	9.0%	3	7.3%	100	8.5%
40-44	13	7.9%	73	7.5%	3	7.3%	89	7.6%
45-49	13	7.9%	70	7.2%	2	4.9%	85	7.2%
50-54	6	3.7%	74	7.6%	3	7.3%	83	7.1%
55-59	10	6.1%	62	6.4%	5	12.2%	77	6.6%
60-64	9	5.5%	43	4.4%	1	2.4%	53	4.5%
65-69	5	3.0%	35	3.6%	7	17.1%	47	4.0%
70+	4	2.4%	21	2.2%	2	4.9%	27	2.3%
Unknown	14	8.5%	16	1.7%	0	0.0%	30	2.6%
Total	164	100.0%	969	100.0%	41	100.0%	1,174	100.0%

- One-half (50%) of the motorcycle drivers in crashes were under the age of 35 years.
- The 65-69 year age group had the highest number of drivers in fatal crashes.

Motorcycle Driver License Status (Utah 2016)

- Of the 41 motorcycle drivers in fatal crashes, 34 (83%) had a valid motorcycle license.

Motorcycle Crash Severity (Utah 2016)

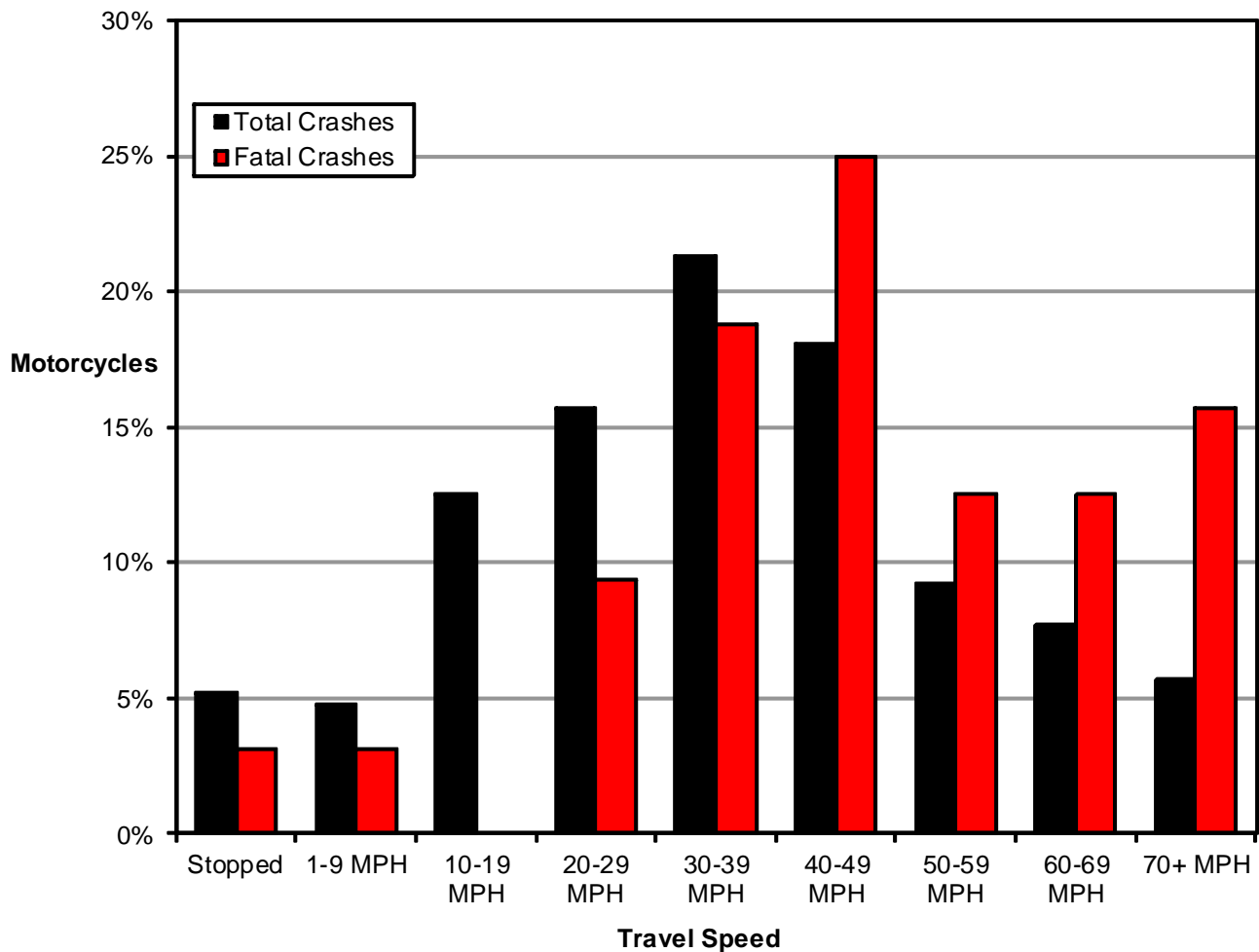


- Motorcycle crashes were more likely to result in injury (82% to 30%) or death (3.4% to 0.4%) compared to all motor vehicle crashes.

Motorcycle Crash Conditions

Travel Speed (Utah 2016)

Motorcycles								
Travel Speed	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Parked	14	8.0%	3	0.3%	0	0.0%	17	1.4%
Stopped	21	12.0%	25	2.6%	1	2.4%	47	4.0%
1-9 MPH	16	9.1%	26	2.7%	1	2.4%	43	3.6%
10-19 MPH	17	9.7%	97	10.0%	0	0.0%	114	9.6%
20-29 MPH	20	11.4%	120	12.3%	3	7.3%	143	12.0%
30-39 MPH	19	10.9%	169	17.4%	6	14.6%	194	16.3%
40-49 MPH	15	8.6%	142	14.6%	8	19.5%	165	13.9%
50-59 MPH	6	3.4%	74	7.6%	4	9.8%	84	7.1%
60-69 MPH	9	5.1%	57	5.9%	4	9.8%	70	5.9%
70-79 MPH	3	1.7%	31	3.2%	3	7.3%	37	3.1%
80+ MPH	0	0.0%	13	1.3%	2	4.9%	15	1.3%
Unknown	35	20.0%	215	22.1%	9	22.0%	259	21.8%
Total	175	100.0%	972	100.0%	41	100.0%	1,188	100.0%



- Over one-half (55% of known) of motorcycles in total crashes were traveling 20-49 MPH.
- The majority (66% of known) of the motorcycles in fatal crashes were traveling 40 MPH or higher.

Motorcycle Crash Conditions

Maneuver of Other Vehicle Prior to Motorcycle Crash (Utah 2016)

Vehicles Other than Motorcycles (Motorcycle Crash)								
Vehicle Maneuver	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Straight Ahead	59	38.3%	174	30.9%	8	32.0%	241	32.5%
Turning Left	16	10.4%	172	30.6%	15	60.0%	203	27.4%
Stopped in Traffic Lane	26	16.9%	66	11.7%	2	8.0%	94	12.7%
Changing Lanes	4	2.6%	30	5.3%	0	0.0%	34	4.6%
Slowing in Traffic Lane	10	6.5%	23	4.1%	0	0.0%	33	4.4%
Turning Right	8	5.2%	25	4.4%	0	0.0%	33	4.4%
Parked/Parking	11	7.1%	20	3.6%	0	0.0%	31	4.2%
Making U-turn	5	3.2%	22	3.9%	0	0.0%	27	3.6%
Entering/Leaving Traffic Lane	4	2.6%	19	3.4%	0	0.0%	23	3.1%
Backing	7	4.5%	2	0.4%	0	0.0%	9	1.2%
Overtaking/Passing	0	0.0%	1	0.2%	0	0.0%	1	0.1%
Unknown/Other	4	2.6%	9	1.6%	0	0.0%	13	1.8%
Total	154	100.0%	563	100.0%	25	100.0%	742	100.0%

- For all motorcycle crashes, the leading maneuvers of vehicles other than motorcycles prior to the crash were straight ahead (33%) and turning left (27%).

Motorcycle Maneuver Prior to Motorcycle Crash (Utah 2016)

Motorcycles (Motorcycle Crash)								
Vehicle Maneuver	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Straight Ahead	99	56.6%	759	78.1%	36	87.8%	894	75.3%
Turning Left	13	7.4%	53	5.5%	1	2.4%	67	5.6%
Turning Right	6	3.4%	27	2.8%	0	0.0%	33	2.8%
Slowing in Traffic Lane	10	5.7%	43	4.4%	0	0.0%	53	4.5%
Stopped in Traffic Lane	20	11.4%	24	2.5%	1	2.4%	45	3.8%
Changing Lanes	4	2.3%	15	1.5%	0	0.0%	19	1.6%
Parked/Parking	14	8.0%	3	0.3%	0	0.0%	17	1.4%
Overtaking/Passing	2	1.1%	16	1.6%	0	0.0%	18	1.5%
Entering/Leaving Traffic Lane	1	0.6%	9	0.9%	0	0.0%	10	0.8%
Making U-turn	0	0.0%	3	0.3%	1	2.4%	4	0.3%
Backing	1	0.6%	1	0.1%	0	0.0%	2	0.2%
Other	3	1.7%	7	0.7%	1	2.4%	11	0.9%
Unknown	2	1.1%	12	1.2%	1	2.4%	15	1.3%
Total	175	100.0%	972	100.0%	41	100.0%	1,188	100.0%

- For all motorcycle crashes, the leading maneuver of motorcycles prior to the crash was straight ahead (75%).

Motorcycle Crash Conditions

Number of Vehicles Involved in Motorcycle Crashes (Utah 2016)

Motorcycle Crashes								
Vehicles Involved	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Motorcycle Only	36	20.8%	420	44.0%	18	43.9%	474	40.5%
Motorcycle and 1 or More Other Vehicles	137	79.2%	535	56.0%	23	56.1%	695	59.5%
Total	173	100.0%	955	100.0%	41	100.0%	1,169	100.0%

- In 60% of all motorcycle crashes there was the motorcycle and one or more other vehicles involved.

Contributing Factors of Drivers Other than Motorcyclists in Motorcycle Crashes (Utah 2016)

Drivers/Vehicles Other than Motorcycles (Motorcycle Crash)								
Contributing Factors	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Failed to Yield Right of Way	15	14.4%	203	40.8%	13	56.5%	231	37.0%
Improper Turn	11	10.6%	68	13.7%	1	4.3%	80	12.8%
Followed Too Closely	23	22.1%	28	5.6%	1	4.3%	52	8.3%
Other Improper Driving	8	7.7%	29	5.8%	0	0.0%	37	5.9%
Improper Lane Change	3	2.9%	25	5.0%	0	0.0%	28	4.5%
Disregard Traffic Signal/Sign	3	2.9%	21	4.2%	1	4.3%	25	4.0%
Driver Distraction	6	5.8%	18	3.6%	1	4.3%	25	4.0%
Vision Obscured by Moving Vehicle	3	2.9%	17	3.4%	0	0.0%	20	3.2%
Vision Obscured by Other	0	0.0%	15	3.0%	2	8.7%	17	2.7%
Driving Under the Influence	3	2.9%	8	1.6%	2	8.7%	13	2.1%
Hit and Run	2	1.9%	9	1.8%	1	4.3%	12	1.9%
Failed to Keep in Proper Lane	5	4.8%	6	1.2%	0	0.0%	11	1.8%
Vehicle Defective Condition	4	3.8%	7	1.4%	0	0.0%	11	1.8%
Vision Obscured by Parked Vehicle	2	1.9%	9	1.8%	0	0.0%	11	1.8%
Vision Obscured by Glare	0	0.0%	9	1.8%	0	0.0%	9	1.4%
Improper Backing	6	5.8%	2	0.4%	0	0.0%	8	1.3%
Speed Too Fast	4	3.8%	4	0.8%	0	0.0%	8	1.3%
Improper Parking/Stopping	4	3.8%	3	0.6%	0	0.0%	7	1.1%
Swerved or Evasive Action	1	1.0%	5	1.0%	0	0.0%	6	1.0%
Driver Illness/Medical	0	0.0%	3	0.6%	1	4.3%	4	0.6%
Driver Condition Other	1	1.0%	1	0.2%	0	0.0%	2	0.3%
Improper Signal	0	0.0%	2	0.4%	0	0.0%	2	0.3%
Driver Asleep/Fatigue	0	0.0%	1	0.2%	0	0.0%	1	0.2%
Driver Emotional Prior to Crash	0	0.0%	1	0.2%	0	0.0%	1	0.2%
Improper Passing	0	0.0%	1	0.2%	0	0.0%	1	0.2%
Overcorrected	0	0.0%	1	0.2%	0	0.0%	1	0.2%
Reckless/Aggressive Driving	0	0.0%	1	0.2%	0	0.0%	1	0.2%
Wrong Side/Wrong Way	0	0.0%	1	0.2%	0	0.0%	1	0.2%
Total	104	100.0%	498	100.0%	23	100.0%	625	100.0%

- Failed to yield right of way (37%), improper turn (13%), and followed too closely (8%) were the leading contributing factors for drivers other than motorcyclists in all motorcycle crashes.
- The leading contributing factor for fatal crashes was failed to yield right of way (57%).

Motorcycle Crash Conditions

Contributing Factors of Motorcycle Drivers in Crashes (Utah 2016)

Motorcycle Drivers/Vehicles								
Contributing Factors	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Speed Too Fast	7	6.0%	122	15.1%	15	37.5%	144	14.9%
Followed Too Closely	27	23.1%	92	11.4%	2	5.0%	121	12.5%
Failed to Keep in Proper Lane	7	6.0%	81	10.0%	0	0.0%	88	9.1%
Ran Off Road	5	4.3%	63	7.8%	10	25.0%	78	8.1%
Swerved or Evasive Action	2	1.7%	64	7.9%	0	0.0%	66	6.8%
Other Improper Driving	6	5.1%	51	6.3%	0	0.0%	57	5.9%
Failed to Yield Right of Way	8	6.8%	39	4.8%	1	2.5%	48	5.0%
Overcorrected	4	3.4%	35	4.3%	0	0.0%	39	4.0%
Driver Distraction	7	6.0%	28	3.5%	1	2.5%	36	3.7%
Reckless/Aggressive Driving	3	2.6%	28	3.5%	3	7.5%	34	3.5%
Driving Under the Influence	1	0.9%	28	3.5%	2	5.0%	31	3.2%
Disregard Traffic Signal/Sign	1	0.9%	22	2.7%	1	2.5%	24	2.5%
Vehicle Other Defective Condition	5	4.3%	18	2.2%	0	0.0%	23	2.4%
Improper Turn	7	6.0%	12	1.5%	0	0.0%	19	2.0%
Improper Passing	4	3.4%	13	1.6%	0	0.0%	17	1.8%
Vehicle Tires	2	1.7%	13	1.6%	1	2.5%	16	1.7%
Vehicle Brakes	0	0.0%	15	1.9%	0	0.0%	15	1.6%
Hit and Run	7	6.0%	7	0.9%	0	0.0%	14	1.5%
Vision Obscured by Other	0	0.0%	13	1.6%	1	2.5%	14	1.5%
Improper Lane Change	3	2.6%	8	1.0%	1	2.5%	12	1.2%
Improper Parking/Stopping	2	1.7%	10	1.2%	0	0.0%	12	1.2%
Driver Condition Other	2	1.7%	9	1.1%	0	0.0%	11	1.1%
Driver Illness/Medical	1	0.9%	7	0.9%	2	5.0%	10	1.0%
Vision Obscured by Moving Vehicle	3	2.6%	6	0.7%	0	0.0%	9	0.9%
Vision Obscured by Weather Condition	0	0.0%	7	0.9%	0	0.0%	7	0.7%
Vision Obscured by Glare	2	1.7%	4	0.5%	0	0.0%	6	0.6%
Driver Emotional Prior to Crash	1	0.9%	3	0.4%	0	0.0%	4	0.4%
Vision Obscured by Parked Vehicle	0	0.0%	4	0.5%	0	0.0%	4	0.4%
Wrong Side/Wrong Way	0	0.0%	3	0.4%	0	0.0%	3	0.3%
Disregard Road Markings	0	0.0%	1	0.1%	0	0.0%	1	0.1%
Driver Asleep/Fatigue	0	0.0%	1	0.1%	0	0.0%	1	0.1%
Vision Obscured by Vegetation	0	0.0%	1	0.1%	0	0.0%	1	0.1%
Total	117	100.0%	808	100.0%	40	100.0%	965	100.0%

- Speed too fast (15%), followed too closely (13%), failed to keep in proper lane (9%), and ran off road (8%) were the leading contributing factors for all motorcycle crashes.
- The leading contributing factors for fatal crashes were speed too fast (38%) and ran off road (25%).

Motorcycle Crash Conditions

Drivers Other than Motorcyclists in Motorcycle Crashes with Contributing Factors (Utah 2016)

Drivers/Vehicles Other than Motorcycles (Motorcycle Crash)								
Driver/Vehicle with a Contributing Factor(s)	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Yes	73	47.4%	347	61.6%	15	60.0%	435	58.6%
No	73	47.4%	204	36.2%	8	32.0%	285	38.4%
Unknown	8	5.2%	12	2.1%	2	8.0%	22	3.0%
Total	154	100.0%	563	100.0%	25	100.0%	742	100.0%

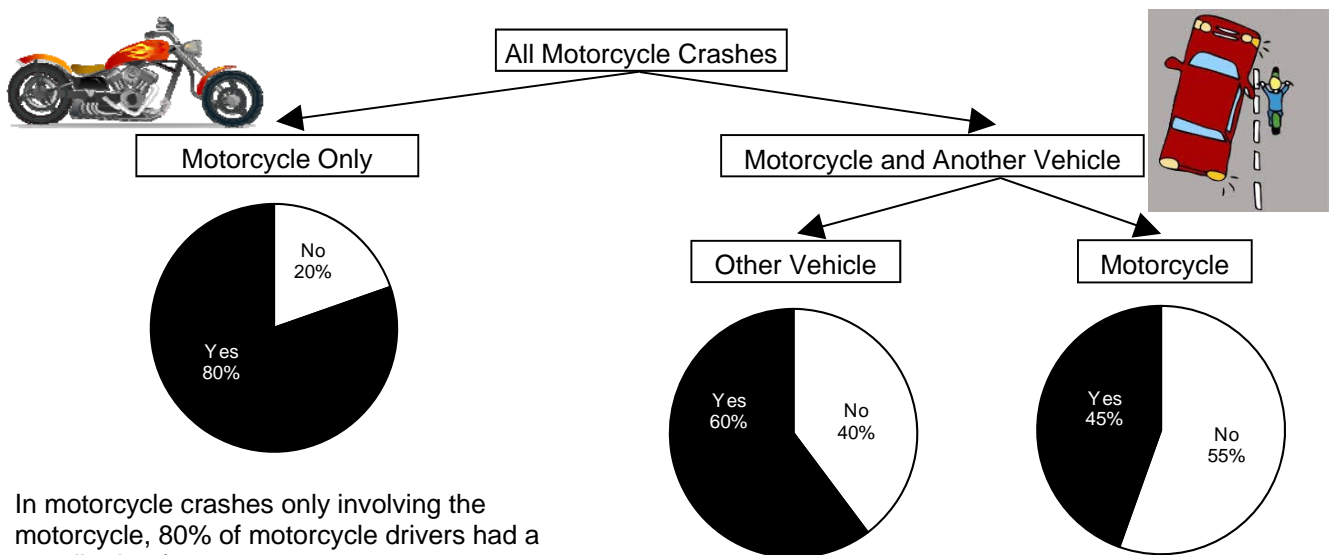
- 59% of drivers other than motorcyclists in motorcycle crashes had a contributing factor in total crashes.

Motorcycle Drivers in Crashes with Contributing Factors (Utah 2016)

Motorcycle Drivers/Vehicles								
Driver/Vehicle with a Contributing Factor(s)	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Yes	86	49.1%	551	56.7%	21	51.2%	658	55.4%
No	74	42.3%	390	40.1%	15	36.6%	479	40.3%
Unknown	15	8.6%	31	3.2%	5	12.2%	51	4.3%
Total	175	100.0%	972	100.0%	41	100.0%	1,188	100.0%

- 55% of motorcycle drivers had a contributing factor in total crashes.

Contributing Factor Summary in Motorcycle Crashes (Utah 2016)



- In motorcycle crashes only involving the motorcycle, 80% of motorcycle drivers had a contributing factor.
- In motorcycle crashes involving more than one vehicle, 45% of motorcycle drivers and 60% of drivers other than motorcyclists had a contributing factor.