

Bicyclists



Section 12: Bicyclists

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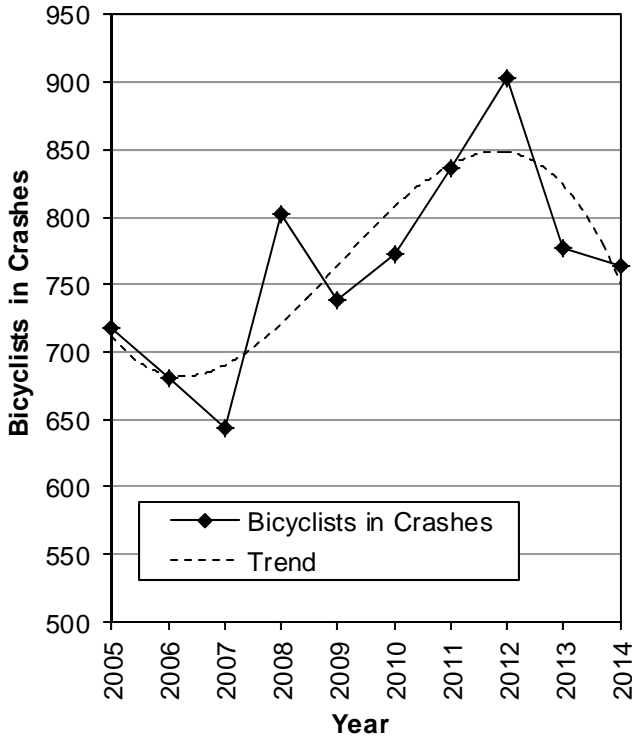
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Trends

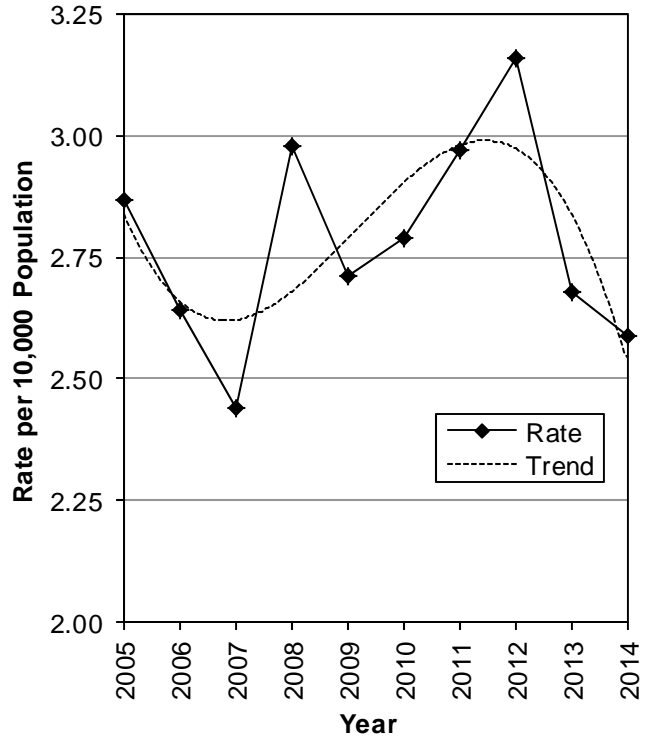
Bicyclists in Crashes (Utah 2005-2014)

Bicyclists								
Year	Non-Injured		Injured		Killed		Total	
	#	Rate per 10,000 Pop.	#	Rate per 10,000 Pop.	#	Rate per 10,000 Pop.	#	Rate per 10,000 Pop.
2005	61	0.24	654	2.61	3	0.012	718	2.87
2006	79	0.31	592	2.30	10	0.039	681	2.64
2007	53	0.20	584	2.22	6	0.023	643	2.44
2008	90	0.33	708	2.63	4	0.015	802	2.98
2009	83	0.30	651	2.38	5	0.018	739	2.71
2010	86	0.31	680	2.45	7	0.025	773	2.79
2011	85	0.30	747	2.65	5	0.018	837	2.97
2012	63	0.22	837	2.93	3	0.011	903	3.16
2013	83	0.29	688	2.37	6	0.021	777	2.68
2014	69	0.23	685	2.33	9	0.031	763	2.59
Total	752	0.27	6,826	2.49	58	0.021	7,636	2.78

Bicyclists in Crashes (Utah 2005-2014)



Bicyclist Crash Rates Per Population (Utah 2005-2014)



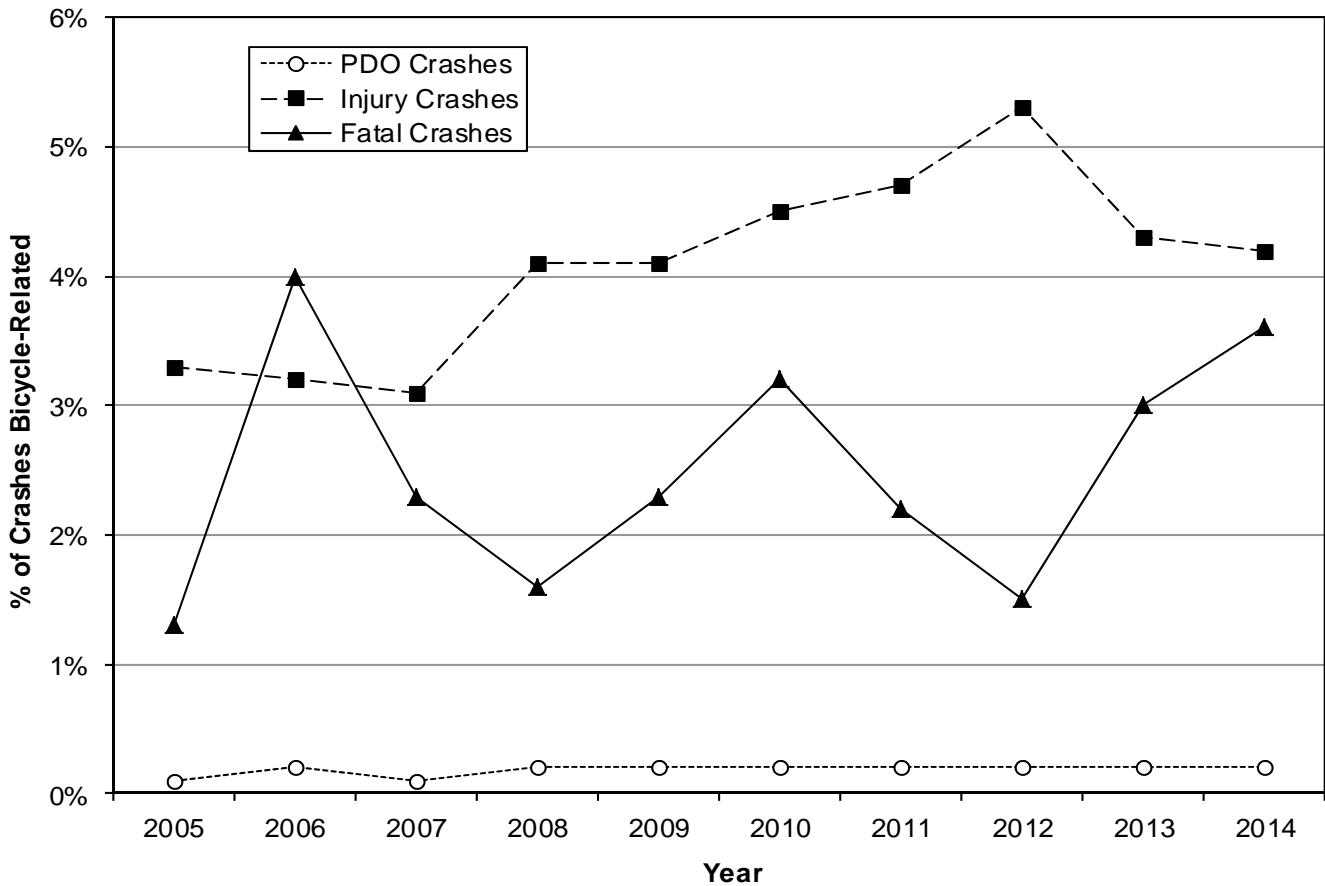
- On average, 764 bicyclists are in crashes every year.
- The total number of bicyclists in crashes increased 6.3% over the last 10 years.
- 2012 had the highest number of bicyclists in crashes (903).
- The total rate per population of bicyclists in crashes decreased 9.8% over the last 10 years.
- 2007 had the lowest bicyclist crash rate per population (2.44).
- 2012 had the highest bicyclist crash rate per population (3.16).

Trends

Bicycle-Motor Vehicle Crashes (Utah 2005-2014)

Bicycle-Motor Vehicle Crashes												
Year	Property Damage Only			Injury			Fatal			Total		
	All #	Bicycle #	%	All #	Bicycle #	%	All #	Bicycle #	%	All #	Bicycle #	%
2005	35,158	50	0.1%	19,545	637	3.3%	235	3	1.3%	54,938	690	1.3%
2006	37,749	71	0.2%	18,189	589	3.2%	249	10	4.0%	56,187	670	1.2%
2007	42,368	46	0.1%	18,619	579	3.1%	258	6	2.3%	61,245	631	1.0%
2008	38,997	83	0.2%	17,125	697	4.1%	245	4	1.6%	56,367	784	1.4%
2009	35,398	83	0.2%	15,752	651	4.1%	217	5	2.3%	51,367	739	1.4%
2010	34,155	78	0.2%	14,995	669	4.5%	218	7	3.2%	49,368	754	1.5%
2011	36,418	73	0.2%	15,645	735	4.7%	224	5	2.2%	52,287	813	1.6%
2012	34,635	59	0.2%	15,765	833	5.3%	200	3	1.5%	50,600	895	1.8%
2013	39,301	74	0.2%	16,134	686	4.3%	202	6	3.0%	55,637	766	1.4%
2014	37,388	60	0.2%	16,426	684	4.2%	222	8	3.6%	54,036	752	1.4%
Total	371,567	677	0.2%	168,195	6,760	4.0%	2,270	57	2.5%	542,032	7,494	1.4%

Percent of Crashes Involving a Bicyclist (Utah 2005-2014)

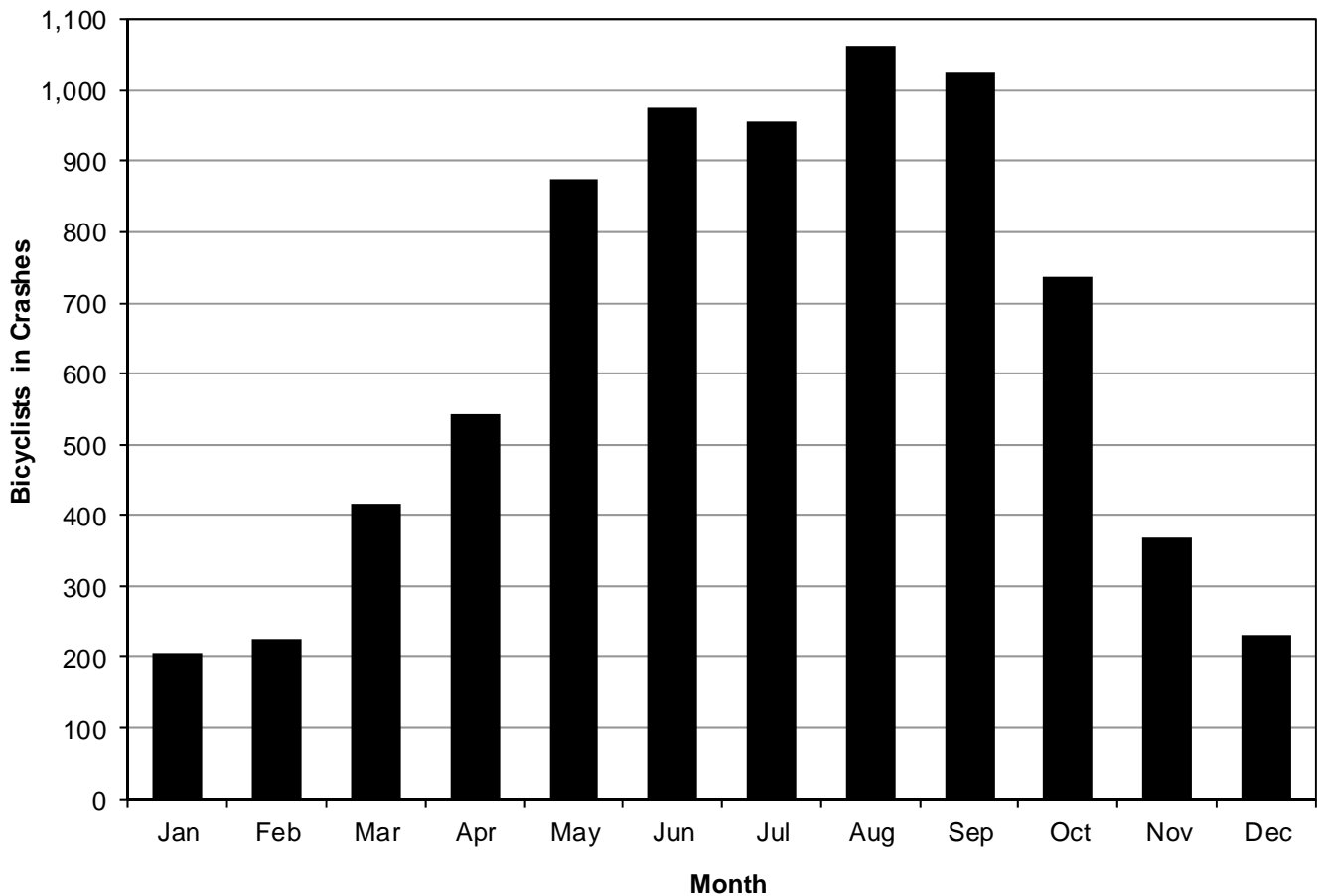


- The 10-year trend shows that bicycle-motor vehicle crashes represent 0.2% of property damage only crashes, 4.0% of injury crashes, and 2.5% of fatal crashes.
- During the last 10 years, 7,494 crashes involved a bicyclist. There are approximately 680 injury crashes and six fatal crashes involving bicyclists a year.

Trends

Bicyclists in Crashes by Month (Utah 2005-2014)

Month	Bicyclists										Total	
	Year										#	%
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014		
January	23	30	14	14	13	25	18	30	11	27	205	2.7%
February	31	31	13	11	29	23	15	33	16	23	225	3.0%
March	38	38	43	30	35	38	53	54	36	51	416	5.5%
April	58	49	59	49	57	47	38	73	56	57	543	7.1%
May	78	95	73	90	101	76	74	112	100	75	874	11.5%
June	79	77	86	103	88	104	124	108	106	102	977	12.8%
July	92	68	75	106	86	113	117	86	111	101	955	12.5%
August	108	100	86	123	114	99	124	112	121	76	1,063	14.0%
September	88	79	78	137	115	114	119	110	87	100	1,027	13.5%
October	61	60	70	75	46	71	90	100	73	90	736	9.7%
November	29	32	32	37	36	43	33	51	43	33	369	4.8%
December	17	22	14	27	19	20	32	34	17	28	230	3.0%
Total	702	681	643	802	739	773	837	903	777	763	7,620	100.0%

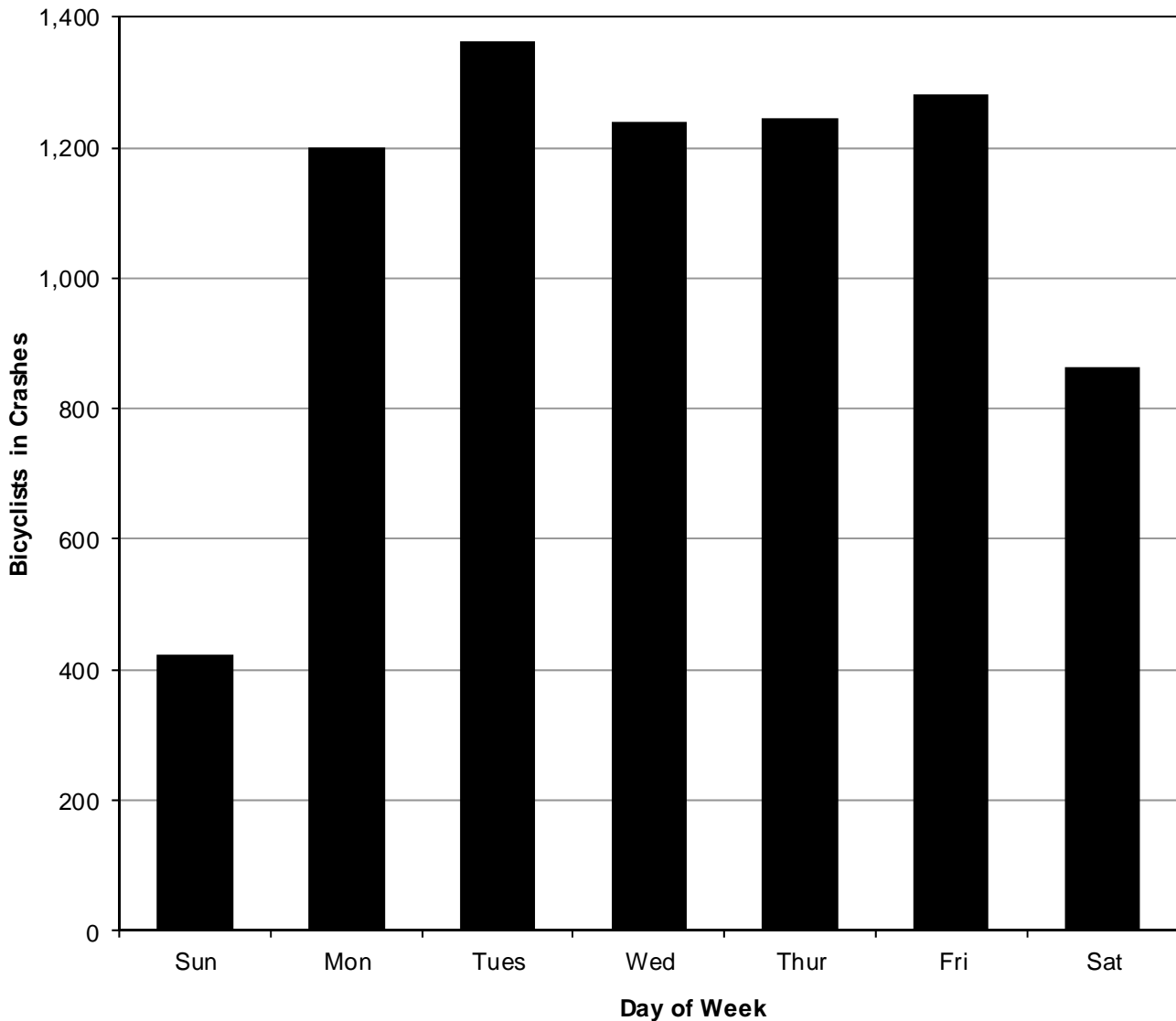


- Bicycle-motor vehicle crashes were highest during the months of June through September over the past 10 years.
- Bicycle-motor vehicle crashes were lowest during the months of December through February over the past 10 years.

Trends

Bicyclists in Crashes by Day of Week (Utah 2005-2014)

Bicyclists												
Day of Week	Year										Total	
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	#	%
Sunday	39	28	35	41	38	51	52	60	46	34	424	5.6%
Monday	116	105	114	124	102	143	140	108	123	126	1,201	15.8%
Tuesday	115	131	106	139	151	133	160	163	136	130	1,364	17.9%
Wednesday	114	128	95	136	133	122	129	151	117	116	1,241	16.3%
Thursday	106	101	105	129	105	139	142	169	120	128	1,244	16.3%
Friday	127	102	116	132	120	102	127	158	151	146	1,281	16.8%
Saturday	85	86	72	101	90	83	87	94	84	83	865	11.4%
Total	702	681	643	802	739	773	837	903	777	763	7,620	100.0%

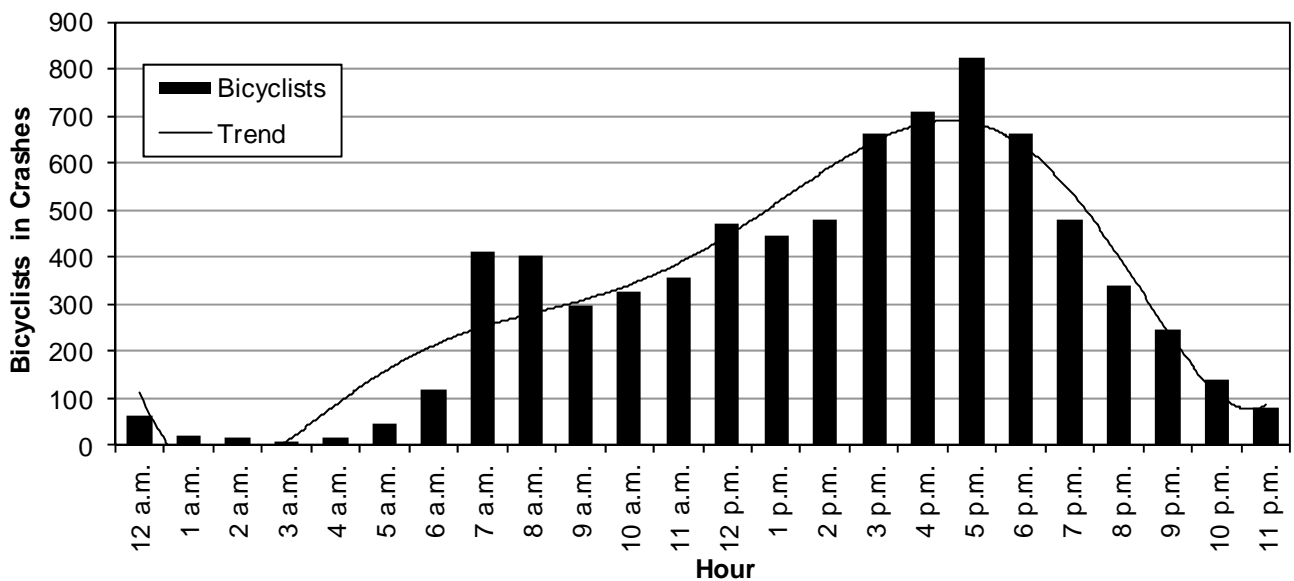


- Bicycle-motor vehicle crashes were highest Monday through Friday over the past 10 years.
- Bicycle-motor vehicle crashes were lowest on Sunday over the past 10 years.

Trends

Bicyclists in Crashes by Hour (Utah 2005-2014)

Bicyclists												
Hour	Year										Total	
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	#	%
Midnight	3	4	5	7	5	4	13	8	7	6	62	0.8%
1 a.m.	1	2	1	0	6	2	1	4	1	4	22	0.3%
2 a.m.	0	0	0	5	0	5	0	4	0	3	17	0.2%
3 a.m.	1	0	0	3	1	0	1	1	1	1	9	0.1%
4 a.m.	0	1	1	3	1	3	0	3	2	3	17	0.2%
5 a.m.	3	4	4	8	3	7	3	3	8	4	47	0.6%
6 a.m.	13	11	11	8	7	9	14	17	14	14	118	1.5%
7 a.m.	37	47	41	39	43	44	39	45	41	34	410	5.4%
8 a.m.	37	32	40	42	40	29	44	57	48	32	401	5.3%
9 a.m.	14	20	22	38	22	31	34	40	32	42	295	3.9%
10 a.m.	24	32	26	29	31	35	39	43	35	34	328	4.3%
11 a.m.	40	38	31	47	29	27	36	39	37	32	356	4.7%
Noon	45	27	39	40	53	60	60	54	45	47	470	6.2%
1 p.m.	42	37	37	37	46	42	56	52	49	49	447	5.9%
2 p.m.	48	33	31	52	51	54	54	55	53	48	479	6.3%
3 p.m.	79	74	49	79	70	54	66	77	57	57	662	8.7%
4 p.m.	63	61	62	66	66	73	61	84	85	87	708	9.3%
5 p.m.	65	80	73	86	77	96	94	99	73	80	823	10.8%
6 p.m.	62	68	60	64	61	69	81	77	61	58	661	8.7%
7 p.m.	41	45	44	57	40	50	59	49	42	53	480	6.3%
8 p.m.	31	33	34	32	39	33	32	42	41	24	341	4.5%
9 p.m.	30	16	17	35	20	28	24	24	23	30	247	3.2%
10 p.m.	14	10	11	12	16	13	18	19	12	14	139	1.8%
11 p.m.	9	6	4	13	12	5	8	7	10	7	81	1.1%
Total	702	681	643	802	739	773	837	903	777	763	7,620	100.0%

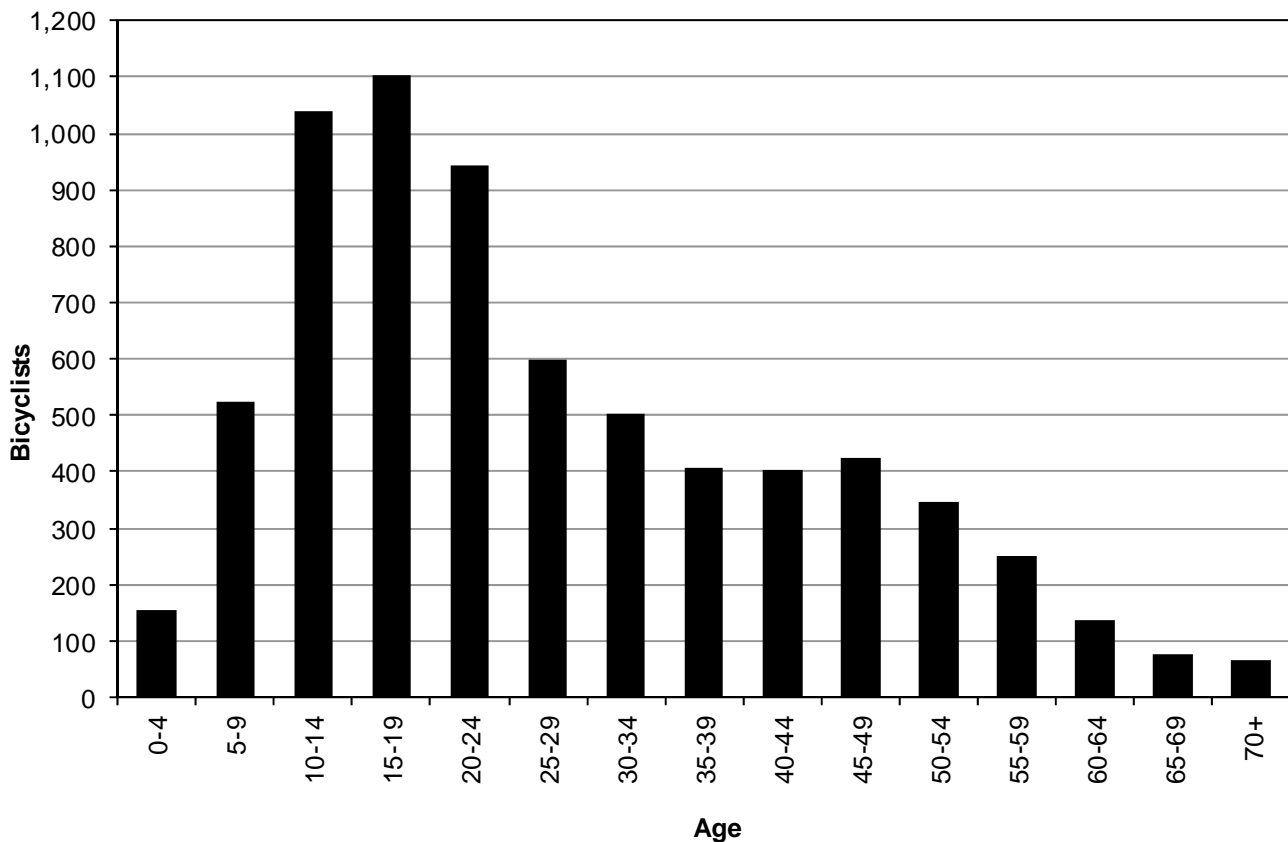


- Bicycle-motor vehicle crashes were highest during the hours of 3:00-6:59 p.m.
- Bicycle-motor vehicle crashes were lowest during the hours of 1:00-4:59 a.m.

Trends

Bicyclists in Crashes by Age (Utah 2005-2014)

Bicyclists												
Age	Year										Total	
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	#	%
0-4	35	9	38	24	7	8	7	8	10	9	155	2.0%
5-9	74	67	49	50	52	44	63	48	38	40	525	6.9%
10-14	121	113	99	122	94	114	115	99	91	71	1,039	13.6%
15-19	103	85	85	116	97	124	126	134	104	128	1,102	14.4%
20-24	75	73	70	95	90	103	125	114	112	88	945	12.4%
25-29	56	43	41	67	67	62	65	73	72	54	600	7.9%
30-34	35	29	40	40	47	59	62	75	55	59	501	6.6%
35-39	49	45	36	29	27	37	37	53	41	53	407	5.3%
40-44	44	35	32	42	38	43	42	53	39	36	404	5.3%
45-49	33	34	36	44	52	42	45	52	35	50	423	5.5%
50-54	19	32	29	21	32	33	40	58	40	42	346	4.5%
55-59	23	19	24	23	17	21	28	38	27	32	252	3.3%
60-64	13	6	9	8	12	9	18	25	14	23	137	1.8%
65-69	5	3	6	8	9	7	9	9	13	8	77	1.0%
70+	2	4	7	6	4	4	8	13	9	8	65	0.9%
Unknown	31	84	42	107	94	63	47	51	77	62	658	8.6%
Total	718	681	643	802	739	773	837	903	777	763	7,636	100.0%

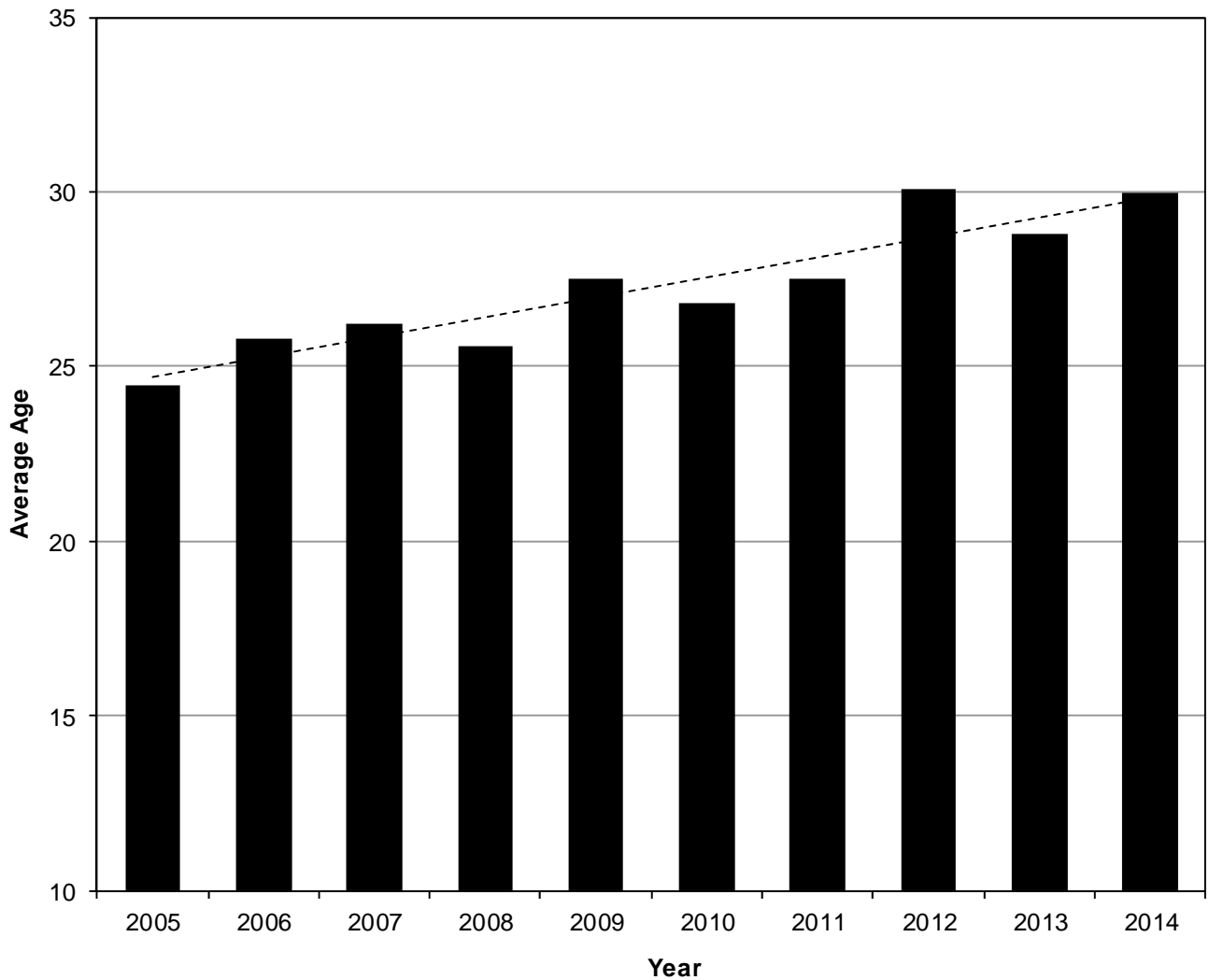


- Bicycle-motor vehicle crashes were highest among ages 10-24 years.
- Bicycle-motor vehicle crashes were lowest among ages 60+ years.

Trends

Bicyclists in Crashes by Average Age (Utah 2005-2014)

Bicyclists	
Year	Total Mean Age
2005	24.47
2006	25.80
2007	26.20
2008	25.60
2009	27.50
2010	26.80
2011	27.50
2012	30.10
2013	28.80
2014	29.95
Average	27.27

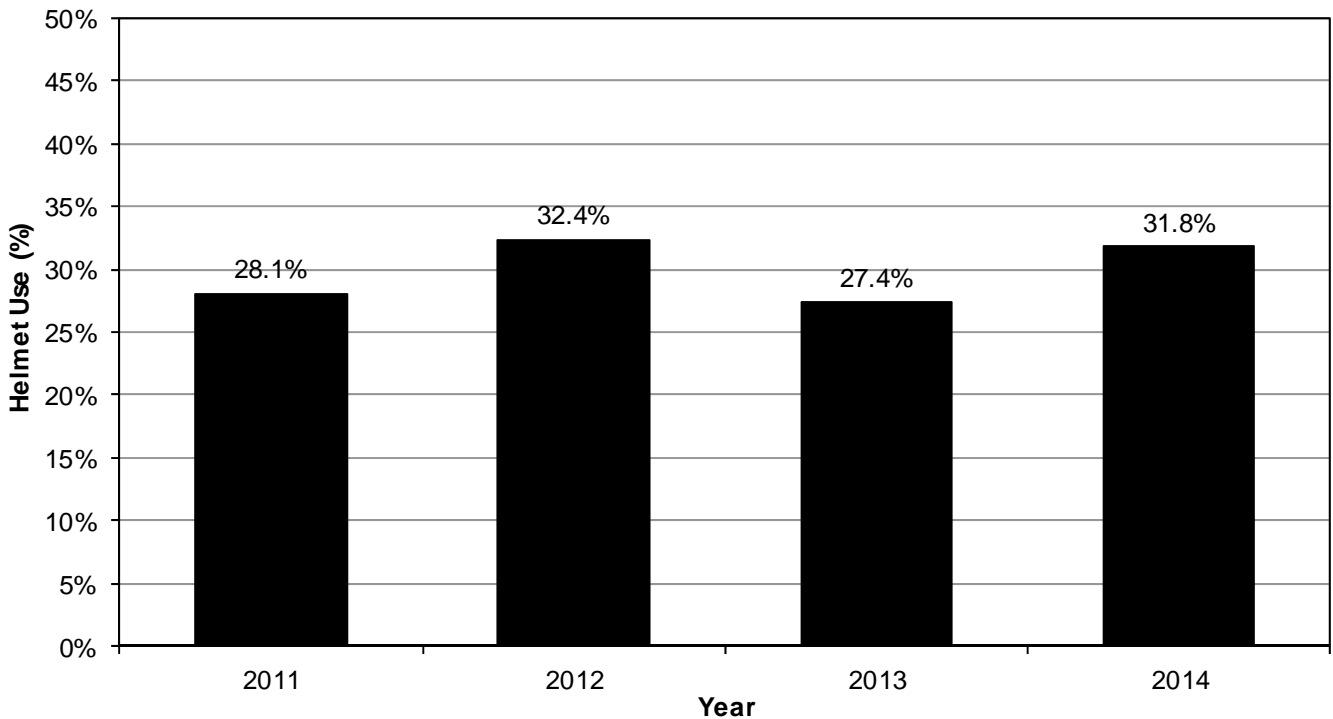


- The average age of bicyclists in crashes has shown an increasing trend over the last 10 years.

Helmets

Helmet Use of Bicyclists in Crashes (Utah 2011-2014)

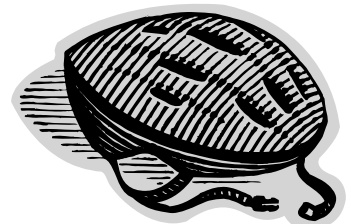
Year	Bicyclists											
	Non-Injured			Injured			Killed			Total		
	No Hlmt	Helmet	%	No Hlmt	Helmet	%	No Hlmt	Helmet	%	No Helmet	Helmet	%
2011	34	5	12.8%	180	78	30.2%	3	2	40.0%	217	85	28.1%
2012	18	5	21.7%	190	96	33.6%	3	0	0.0%	211	101	32.4%
2013	24	10	29.4%	289	106	26.8%	3	3	50.0%	316	119	27.4%
2014	36	9	20.0%	402	193	32.4%	4	4	50.0%	442	206	31.8%
Total	112	29	20.6%	1,061	473	30.8%	13	9	40.9%	1,186	511	30.1%



- Overall helmet use by bicyclists in crashes has remained around the four year average of 30.1%.
- 2012 had the highest percent of helmet use by bicyclists in crashes while 2013 had the lowest percent.

Helmet Use of Bicyclists in Crashes (Utah 2014)

Helmet Use	Bicyclists							
	Non-Injured		Injured		Killed		Total	
	#	%	#	%	#	%	#	%
Helmet Not Worn	36	52.2%	402	58.7%	4	44.4%	442	57.9%
Helmet Worn	9	13.0%	193	28.2%	4	44.4%	206	27.0%
Unknown	24	34.8%	90	13.1%	1	11.1%	115	15.1%
Total	69	100.0%	685	100.0%	9	100.0%	763	100.0%



- Where helmet use is known for bicyclists, 31.8% of bicyclists were wearing a helmet.

Bicycle-Motor Vehicle Crash Conditions

Bicyclists in Crashes by County (Utah 2014)

Bicyclists								
County	Non-Injured		Injured		Killed		Total	
	#	Rate per 10,000 Pop.	#	Rate per 10,000 Pop.	#	Rate per 10,000 Pop.	#	Rate per 10,000 Pop.
Salt Lake	38	0.35	353	3.23	1	0.01	392	3.59
Grand	1	1.06	2	2.12	0	0.00	3	3.18
Weber	6	0.25	65	2.70	0	0.00	71	2.95
Cache	0	0.00	33	2.79	0	0.00	33	2.79
Iron	1	0.21	11	2.33	0	0.00	12	2.54
Washington	2	0.13	34	2.24	2	0.13	38	2.50
Summit	2	0.51	7	1.79	0	0.00	9	2.30
Tooele	2	0.32	10	1.62	1	0.16	13	2.11
Davis	8	0.24	61	1.85	0	0.00	69	2.09
Carbon	0	0.00	4	1.94	0	0.00	4	1.94
Utah	8	0.14	92	1.64	3	0.05	103	1.84
Sevier	0	0.00	3	1.44	0	0.00	3	1.44
Kane	0	0.00	1	1.38	0	0.00	1	1.38
Box Elder	1	0.19	4	0.78	0	0.00	5	0.97
Morgan	0	0.00	1	0.94	0	0.00	1	0.94
Emery	0	0.00	1	0.94	0	0.00	1	0.94
Sanpete	0	0.00	1	0.35	1	0.35	2	0.70
Uintah	0	0.00	2	0.54	0	0.00	2	0.54
Wasatch	0	0.00	0	0.00	1	0.36	1	0.36
Beaver	0	0.00	0	0.00	0	0.00	0	0.00
Daggett	0	0.00	0	0.00	0	0.00	0	0.00
Duchesne	0	0.00	0	0.00	0	0.00	0	0.00
Garfield	0	0.00	0	0.00	0	0.00	0	0.00
Juab	0	0.00	0	0.00	0	0.00	0	0.00
Millard	0	0.00	0	0.00	0	0.00	0	0.00
Piute	0	0.00	0	0.00	0	0.00	0	0.00
Rich	0	0.00	0	0.00	0	0.00	0	0.00
San Juan	0	0.00	0	0.00	0	0.00	0	0.00
Wayne	0	0.00	0	0.00	0	0.00	0	0.00
Statewide	69	0.23	685	2.33	9	0.03	763	2.59

- Urban areas (2.83) had a much higher total bicycle-motor vehicle crash rate per 10,000 population than rural areas (1.27).
- Salt Lake (3.59), Grand (3.18), Weber (2.95), and Cache (2.79) counties had the highest rates per population of total bicyclists in crashes per 10,000 population.
- Salt Lake County accounted for 51% of the bicyclists in crashes.
- Beaver, Daggett, Duchesne, Garfield, Juab, Millard, Piute, Rich, San Juan, and Wayne counties had no bicyclists in crashes.

Bicyclists								
Location	Non-Injured		Injured		Killed		Total	
	#	Rate per 10,000 Pop.	#	Rate per 10,000 Pop.	#	Rate per 10,000 Pop.	#	Rate per 10,000 Pop.
Urban	62	0.25	638	2.56	6	0.02	706	2.83
Rural	7	0.16	47	1.05	3	0.07	57	1.27
Total	69	0.23	685	2.33	9	0.03	763	2.59

Bicycle-Motor Vehicle Crash Conditions

Age of Bicyclists in Crashes (Utah 2014)

Bicyclists								
Age	Non-Injured		Injured		Killed		Total	
	#	%	#	%	#	%	#	%
0-4	3	4.3%	5	0.7%	1	11.1%	9	1.2%
5-9	5	7.2%	34	5.0%	1	11.1%	40	5.2%
10-14	4	5.8%	67	9.8%	0	0.0%	71	9.3%
15-19	10	14.5%	118	17.2%	0	0.0%	128	16.8%
20-24	4	5.8%	84	12.3%	0	0.0%	88	11.5%
25-29	2	2.9%	52	7.6%	0	0.0%	54	7.1%
30-34	5	7.2%	53	7.7%	1	11.1%	59	7.7%
35-39	6	8.7%	44	6.4%	3	33.3%	53	6.9%
40-44	4	5.8%	32	4.7%	0	0.0%	36	4.7%
45-49	6	8.7%	44	6.4%	0	0.0%	50	6.6%
50-54	2	2.9%	39	5.7%	1	11.1%	42	5.5%
55-59	2	2.9%	29	4.2%	1	11.1%	32	4.2%
60-64	3	4.3%	20	2.9%	0	0.0%	23	3.0%
65-69	0	0.0%	7	1.0%	1	11.1%	8	1.0%
70+	1	1.4%	7	1.0%	0	0.0%	8	1.0%
Unknown	12	17.4%	50	7.3%	0	0.0%	62	8.1%
Total	69	100.0%	685	100.0%	9	100.0%	763	100.0%

- Nearly one-half (40.9% of known) of the bicyclists in crashes were 10-24 years.
- The average age of a bicyclist in a crash was 30 years.

Driver Age (Utah 2014)

Drivers (Bicycle-Motor Vehicle Crashes)								
Age	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
<15	0	0.0%	0	0.0%	0	0.0%	0	0.0%
15-19	3	5.2%	54	8.2%	0	0.0%	57	7.8%
20-24	9	15.5%	71	10.7%	0	0.0%	80	11.0%
25-29	5	8.6%	76	11.5%	1	12.5%	82	11.3%
30-34	9	15.5%	67	10.1%	3	37.5%	79	10.9%
35-39	7	12.1%	57	8.6%	1	12.5%	65	8.9%
40-44	2	3.4%	53	8.0%	1	12.5%	56	7.7%
45-49	5	8.6%	50	7.6%	1	12.5%	56	7.7%
50-54	3	5.2%	47	7.1%	0	0.0%	50	6.9%
55-59	5	8.6%	37	5.6%	1	12.5%	43	5.9%
60-64	1	1.7%	31	4.7%	0	0.0%	32	4.4%
65-69	2	3.4%	27	4.1%	0	0.0%	29	4.0%
70-74	3	5.2%	15	2.3%	0	0.0%	18	2.5%
75-79	1	1.7%	14	2.1%	0	0.0%	15	2.1%
80-84	1	1.7%	11	1.7%	0	0.0%	12	1.6%
85+	1	1.7%	4	0.6%	0	0.0%	5	0.7%
Unknown	1	1.7%	48	7.3%	0	0.0%	49	6.7%
Total	58	100.0%	662	100.0%	8	100.0%	728	100.0%

- Over half (53.5% of known) of drivers in total bicycle-motor vehicle crashes were under age 40 years.
- The average age of a driver that hit a bicyclist was 41 years.

Bicycle-Motor Vehicle Crash Conditions

Gender of Bicyclists in Crashes (Utah 2014)

Bicyclists								
Gender	Non-Injured		Injured		Killed		Total	
	#	%	#	%	#	%	#	%
Male	53	76.8%	512	74.7%	8	88.9%	573	75.1%
Female	4	5.8%	146	21.3%	1	11.1%	151	19.8%
Unknown	12	17.4%	27	3.9%	0	0.0%	39	5.1%
Total	69	100.0%	685	100.0%	9	100.0%	763	100.0%

- Most bicyclists (79.1% of known) in crashes were male.

Driver Gender (Utah 2014)

Drivers (Bicycle-Motor Vehicle Crashes)								
Gender	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Male	28	48.3%	327	49.4%	7	87.5%	362	49.7%
Female	30	51.7%	299	45.2%	1	12.5%	330	45.3%
Unknown	0	0.0%	36	5.4%	0	0.0%	36	4.9%
Total	58	100.0%	662	100.0%	8	100.0%	728	100.0%

- The majority of drivers in total bicycle-motor vehicle crashes (52.3% of known) were male.

Bicycle-Motor Vehicle Crashes by Month (Utah 2014)

Bicyclists								
Month	Non-Injured		Injured		Killed		Total	
	#	Rate per Day	#	Rate per Day	#	Rate per Day	#	Rate per Day
January	4	0.1	23	0.7	0	0.00	27	0.9
February	3	0.1	20	0.7	0	0.00	23	0.8
March	6	0.2	43	1.4	2	0.06	51	1.6
April	10	0.3	46	1.5	1	0.03	57	1.9
May	7	0.2	68	2.2	0	0.00	75	2.4
June	11	0.4	89	3.0	2	0.07	102	3.4
July	12	0.4	89	2.9	0	0.00	101	3.3
August	7	0.2	69	2.2	0	0.00	76	2.5
September	5	0.2	94	3.1	1	0.03	100	3.3
October	4	0.1	83	2.7	3	0.10	90	2.9
November	0	0.0	33	1.1	0	0.00	33	1.1
December	0	0.0	28	0.9	0	0.00	28	0.9
Total	69	0.2	685	1.9	9	0.02	763	2.1

- June (3.4), July (3.3), and September (3.3) had the highest rates per day of total bicycle-motor vehicle crashes.

Bicycle-Motor Vehicle Crash Conditions

Bicycle-Motor Vehicle Crashes by Day of Week (Utah 2014)

Bicyclists								
Day of Week	Non-Injured		Injured		Killed		Total	
	#	%	#	%	#	%	#	%
Sunday	3	4.3%	31	4.5%	0	0.0%	34	4.5%
Monday	10	14.5%	115	16.8%	1	11.1%	126	16.5%
Tuesday	11	15.9%	117	17.1%	2	22.2%	130	17.0%
Wednesday	12	17.4%	101	14.7%	3	33.3%	116	15.2%
Thursday	12	17.4%	115	16.8%	1	11.1%	128	16.8%
Friday	13	18.8%	132	19.3%	1	11.1%	146	19.1%
Saturday	8	11.6%	74	10.8%	1	11.1%	83	10.9%
Total	69	100.0%	685	100.0%	9	100.0%	763	100.0%

- The highest percentage of total bicycle-motor vehicle crashes occurred on Friday (19.1%).

Bicycle-Motor Vehicle Crashes by Hour (Utah 2014)

Bicyclists								
Hour	Non-Injured		Injured		Killed		Total	
	#	%	#	%	#	%	#	%
Midnight	0	0.0%	6	0.9%	0	0.0%	6	0.8%
1 a.m.	0	0.0%	4	0.6%	0	0.0%	4	0.5%
2 a.m.	0	0.0%	3	0.4%	0	0.0%	3	0.4%
3 a.m.	0	0.0%	1	0.1%	0	0.0%	1	0.1%
4 a.m.	0	0.0%	3	0.4%	0	0.0%	3	0.4%
5 a.m.	0	0.0%	3	0.4%	1	11.1%	4	0.5%
6 a.m.	0	0.0%	11	1.6%	3	33.3%	14	1.8%
7 a.m.	3	4.3%	31	4.5%	0	0.0%	34	4.5%
8 a.m.	4	5.8%	28	4.1%	0	0.0%	32	4.2%
9 a.m.	3	4.3%	39	5.7%	0	0.0%	42	5.5%
10 a.m.	2	2.9%	31	4.5%	1	11.1%	34	4.5%
11 a.m.	4	5.8%	28	4.1%	0	0.0%	32	4.2%
Noon	5	7.2%	41	6.0%	1	11.1%	47	6.2%
1 p.m.	6	8.7%	43	6.3%	0	0.0%	49	6.4%
2 p.m.	2	2.9%	46	6.7%	0	0.0%	48	6.3%
3 p.m.	6	8.7%	51	7.4%	0	0.0%	57	7.5%
4 p.m.	7	10.1%	80	11.7%	0	0.0%	87	11.4%
5 p.m.	11	15.9%	68	9.9%	1	11.1%	80	10.5%
6 p.m.	5	7.2%	53	7.7%	0	0.0%	58	7.6%
7 p.m.	3	4.3%	49	7.2%	1	11.1%	53	6.9%
8 p.m.	3	4.3%	21	3.1%	0	0.0%	24	3.1%
9 p.m.	4	5.8%	26	3.8%	0	0.0%	30	3.9%
10 p.m.	1	1.4%	13	1.9%	0	0.0%	14	1.8%
11 p.m.	0	0.0%	6	0.9%	1	11.1%	7	0.9%
Total	69	100.0%	685	100.0%	9	100.0%	763	100.0%

- Total bicycle-motor vehicle crashes were highest between 3:00 p.m. and 6:59 p.m.

Bicycle-Motor Vehicle Crash Conditions

Contributing Factors of Bicyclists in Crashes (Utah 2014)

Bicyclists								
Contributing Factors	Non-Injured		Injured		Killed		Total	
	#	%	#	%	#	%	#	%
None	18	26.1%	255	37.2%	2	22.2%	275	36.0%
Wrong Side of Road	8	11.6%	72	10.5%	0	0.0%	80	10.5%
Improper Crossing	7	10.1%	51	7.4%	0	0.0%	58	7.6%
Failure to Obey Traffic Signs/Signals	7	10.1%	39	5.7%	2	22.2%	48	6.3%
Failure to Yield Right of Way	4	5.8%	32	4.7%	0	0.0%	36	4.7%
Not Visible	7	10.1%	28	4.1%	1	11.1%	36	4.7%
Inattentive	1	1.4%	31	4.5%	0	0.0%	32	4.2%
Darting	1	1.4%	25	3.6%	0	0.0%	26	3.4%
Improper Turn/Merge	0	0.0%	10	1.5%	0	0.0%	10	1.3%
Improper Passing	0	0.0%	5	0.7%	0	0.0%	5	0.7%
In Roadway Improperly	1	1.4%	1	0.1%	0	0.0%	2	0.3%
Other	7	10.1%	29	4.2%	2	22.2%	38	5.0%
Unknown	8	11.6%	107	15.6%	2	22.2%	117	15.3%
Total	69	100.0%	685	100.0%	9	100.0%	763	100.0%

- Wrong side of road, improper crossing, and failure to obey traffic signs/signals were the leading contributing factors for bicyclists in total crashes.
- No bicyclist contributing factors were listed for 42.6% (of known) of the total bicyclists in crashes.
- Other contributing factors to consider are driver factors, roadway factors (such as high speeds, inadequate on-road bicycle facilities), and vehicle factors (such as vehicle design, vehicle size).

Bicyclist Location in Bicycle-Motor Vehicle Crashes (Utah 2014)

Bicyclists								
Bicyclist Location	Non-Injured		Injured		Killed		Total	
	#	%	#	%	#	%	#	%
Marked Crosswalk at Intersection	21	30.4%	196	28.6%	0	0.0%	217	28.4%
In Roadway (not at intersection)	11	15.9%	124	18.1%	5	55.6%	140	18.3%
Shoulder	10	14.5%	92	13.4%	0	0.0%	102	13.4%
Sidewalk	9	13.0%	89	13.0%	1	11.1%	99	13.0%
Unmarked Crosswalk	2	2.9%	48	7.0%	1	11.1%	51	6.7%
Bike Path/Lane	4	5.8%	30	4.4%	0	0.0%	34	4.5%
Mid-Block Crosswalk	0	0.0%	12	1.8%	0	0.0%	12	1.6%
Outside Right of Way	1	1.4%	2	0.3%	0	0.0%	3	0.4%
Shared Use Path/Trail	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Other	4	5.8%	29	4.2%	2	22.2%	35	4.6%
Unknown	7	10.1%	63	9.2%	0	0.0%	70	9.2%
Total	69	100.0%	685	100.0%	9	100.0%	763	100.0%

- For total crashes, the largest percentages of bicyclist location prior to the crash were marked crosswalk (33.0% of known), in roadway (20.2% of known), shoulder (14.7% of known), and sidewalk (14.3% of known).
- Bicycles are considered vehicles and have a legal right to the road.

Bicycle-Motor Vehicle Crash Conditions

Bicyclist Action in Bicycle-Motor Vehicle Crashes (Utah 2014)

Bicyclists								
Bicyclist Action	Non-Injured		Injured		Killed		Total	
	#	%	#	%	#	%	#	%
Cycling on Sidewalk	29	42.0%	294	42.9%	0	0.0%	323	42.3%
Entering or Crossing Road	9	13.0%	144	21.0%	0	0.0%	153	20.1%
Cycling Along Roadway with Traffic	9	13.0%	109	15.9%	4	44.4%	122	16.0%
Cycling Along Roadway Against Traffic	6	8.7%	53	7.7%	3	33.3%	62	8.1%
In Roadway Other	1	1.4%	4	0.6%	0	0.0%	5	0.7%
Adjacent to Roadway	1	1.4%	2	0.3%	0	0.0%	3	0.4%
Waiting to Cross Roadway	0	0.0%	1	0.1%	0	0.0%	1	0.1%
Going to/from School	0	0.0%	1	0.1%	0	0.0%	1	0.1%
Other	1	1.4%	11	1.6%	0	0.0%	12	1.6%
Unknown	13	18.8%	66	9.6%	2	22.2%	81	10.6%
Total	69	100.0%	685	100.0%	9	100.0%	763	100.0%

- For total crashes, the largest percentages of bicyclist action prior to the crash were cycling on sidewalk (47.4% of known), entering or crossing road (22.4% of known), and cycling along roadway with traffic (17.9% of known), and cycling along roadway against traffic (9.1% of known).

Motor Vehicle Maneuver Prior to Crash (Utah 2014)

Motor Vehicles (Bicycle-Motor Vehicle Crashes)								
Vehicle Maneuver	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Turning Right	26	40.0%	252	33.9%	1	12.5%	279	34.2%
Straight Ahead	18	27.7%	226	30.4%	6	75.0%	250	30.6%
Turning Left	6	9.2%	116	15.6%	0	0.0%	122	15.0%
Entering/Leaving Traffic Lane	2	3.1%	19	2.6%	0	0.0%	21	2.6%
Stopped/Slowing in Traffic Lane	4	6.2%	11	1.5%	0	0.0%	15	1.8%
Parked/Parking	0	0.0%	9	1.2%	0	0.0%	9	1.1%
Backing	1	1.5%	6	0.8%	1	12.5%	8	1.0%
Making U-turn	0	0.0%	6	0.8%	0	0.0%	6	0.7%
Changing Lanes	0	0.0%	4	0.5%	0	0.0%	4	0.5%
Overtaking/Passing	1	1.5%	1	0.1%	0	0.0%	2	0.2%
Other	0	0.0%	7	0.9%	0	0.0%	7	0.9%
Unknown	7	10.8%	86	11.6%	0	0.0%	93	11.4%
Total	65	100.0%	743	100.0%	8	100.0%	816	100.0%

- For total bicycle-motor vehicle crashes, the leading motor vehicle maneuvers prior to the crash were turning right (34.2%), straight ahead (30.6%), and turning left (15.0%).

Bicycle-Motor Vehicle Crash Conditions

Bicycle-Motor Vehicle Crashes by Speed Limit (Utah 2014)

Motor Vehicles (Bicycle-Motor Vehicle Crashes)								
Speed Limit	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
5-15 MPH	1	1.5%	20	2.7%	0	0.0%	21	2.6%
20-25 MPH	14	21.5%	172	23.1%	3	37.5%	189	23.2%
30-35 MPH	18	27.7%	179	24.1%	0	0.0%	197	24.1%
40-45 MPH	9	13.8%	94	12.7%	2	25.0%	105	12.9%
50-55 MPH	1	1.5%	17	2.3%	2	25.0%	20	2.5%
60+ MPH	3	4.6%	4	0.5%	0	0.0%	7	0.9%
Unknown	19	29.2%	257	34.6%	1	12.5%	277	33.9%
Total	65	100.0%	743	100.0%	8	100.0%	816	100.0%

- Nearly all (91.1% of known) of bicycle-motor vehicle crashes occurred where the speed limit was 20-45 MPH.

Travel Speed of Motor Vehicles in Bicycle Crashes (Utah 2014)

Motor Vehicles (Bicycle-Motor Vehicle Crash)								
Travel Speed	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Parked	0	0.0%	7	0.9%	0	0.0%	7	0.9%
Stopped	4	6.2%	7	0.9%	0	0.0%	11	1.3%
1-9 MPH	17	26.2%	211	28.4%	1	12.5%	229	28.1%
10-19 MPH	8	12.3%	113	15.2%	2	25.0%	123	15.1%
20-29 MPH	6	9.2%	66	8.9%	0	0.0%	72	8.8%
30-39 MPH	2	3.1%	31	4.2%	0	0.0%	33	4.0%
40-49 MPH	1	1.5%	15	2.0%	3	37.5%	19	2.3%
50+ MPH	1	1.5%	6	0.8%	1	12.5%	8	1.0%
Unknown	26	40.0%	287	38.6%	1	12.5%	314	38.5%
Total	65	100.0%	743	100.0%	8	100.0%	816	100.0%

- Nearly three-fourths (70.1% of known) of motor vehicles were travelling 1-19 MPH in crashes with bicycles.

Drivers in Bicycle Crashes with Contributing Factors (Utah 2014)

Drivers/Motor Vehicles (Bicycle-Motor Vehicle Crashes)									
Driver/Vehicle with a Contributing Factor(s)	PDO Crashes		Injury Crashes		Fatal Crashes		Total		
	#	%	#	%	#	%	#	%	
Yes	25	38.5%	389	52.4%	4	50.0%	418	51.2%	
No	32	49.2%	242	32.6%	4	50.0%	278	34.1%	
Not Applicable - No Driver	2	3.1%	30	4.0%	0	0.0%	32	3.9%	
Unknown	6	9.2%	82	11.0%	0	0.0%	88	10.8%	
Total	65	100.0%	743	100.0%	8	100.0%	816	100.0%	

- 51.2% (57.4% of known) of drivers in total bicycle crashes had a contributing factor.

Bicycle-Motor Vehicle Crash Conditions

Contributing Factors in Bicycle Crashes (Utah 2014)

Drivers/Motor Vehicles (Bicycle-Motor Vehicle Crashes)								
Contributing Factors	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Failed to Yield Right of Way	16	38.1%	271	45.8%	0	0.0%	287	44.8%
Other Improper Driving	4	9.5%	42	7.1%	0	0.0%	46	7.2%
Driver Distraction	3	7.1%	39	6.6%	1	16.7%	43	6.7%
Improper Turn	3	7.1%	33	5.6%	0	0.0%	36	5.6%
Disregard Traffic Signal/Sign	1	2.4%	24	4.1%	0	0.0%	25	3.9%
Hit and Run	1	2.4%	21	3.5%	2	33.3%	24	3.8%
Vision Obscured by Building, Sign	2	4.8%	21	3.5%	0	0.0%	23	3.6%
Vision Obscured by Glare	1	2.4%	21	3.5%	0	0.0%	22	3.4%
Vision Obscured by Weather	0	0.0%	13	2.2%	0	0.0%	13	2.0%
Vision Obscured by Other	1	2.4%	11	1.9%	0	0.0%	12	1.9%
Vision Obscured by Vegetation	0	0.0%	12	2.0%	0	0.0%	12	1.9%
Failed to Keep in Proper Lane	0	0.0%	10	1.7%	0	0.0%	10	1.6%
Vision Obscured by Moving Vehicle	3	7.1%	7	1.2%	0	0.0%	10	1.6%
Vision Obscured by Parked Vehicle	1	2.4%	9	1.5%	0	0.0%	10	1.6%
Speed Too Fast	0	0.0%	8	1.4%	0	0.0%	8	1.3%
Driving Under the Influence	0	0.0%	6	1.0%	1	16.7%	7	1.1%
Ran Off Road	0	0.0%	7	1.2%	0	0.0%	7	1.1%
Vehicle Defective Condition	1	2.4%	6	1.0%	0	0.0%	7	1.1%
Wrong Side/Wrong Way	0	0.0%	7	1.2%	0	0.0%	7	1.1%
Followed Too Closely	2	4.8%	3	0.5%	1	16.7%	6	0.9%
Driver Emotional Prior to Crash	1	2.4%	3	0.5%	0	0.0%	4	0.6%
Improper Backing	1	2.4%	2	0.3%	1	16.7%	4	0.6%
Improper Passing	0	0.0%	3	0.5%	0	0.0%	3	0.5%
Disregard Road Markings	0	0.0%	2	0.3%	0	0.0%	2	0.3%
Improper Signal	0	0.0%	2	0.3%	0	0.0%	2	0.3%
Other Driver Condition	0	0.0%	2	0.3%	0	0.0%	2	0.3%
Windshield/Window Obscured	0	0.0%	2	0.3%	0	0.0%	2	0.3%
Driver Asleep/Fatigue	0	0.0%	1	0.2%	0	0.0%	1	0.2%
Driver Illness/Medical	0	0.0%	1	0.2%	0	0.0%	1	0.2%
Improper Lane Change	0	0.0%	1	0.2%	0	0.0%	1	0.2%
Improper Parking/Stopping	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%
Swerved or Evasive Action	1	2.4%	0	0.0%	0	0.0%	1	0.2%
Total	42	100.0%	592	100.0%	6	100.0%	640	100.0%

- Failed to yield right of way (44.8%), driver distraction (6.7%), and improper turn (5.6%) were the leading contributing factors in total bicycle-motor vehicle crashes.