

Crash and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only	Fatality	Injury
January	617	2	87	528	2	114
February	462	2	66	394	2	92
March	313	4	54	255	4	78
April	244	1	58	185	1	72
May	318	1	59	258	1	79
June	352	1	77	274	1	123
July	363	2	101	260	2	138
August	305	1	76	228	2	114
September	289	1	70	218	1	92
October	381	4	64	313	4	86
November	383	1	61	321	1	78
December	346	2	55	289	2	72
TOTAL	4,373	22	828	3,523	23	1,138

In Muskegon County in 2011 there were:
4,373 crashes

Involving:

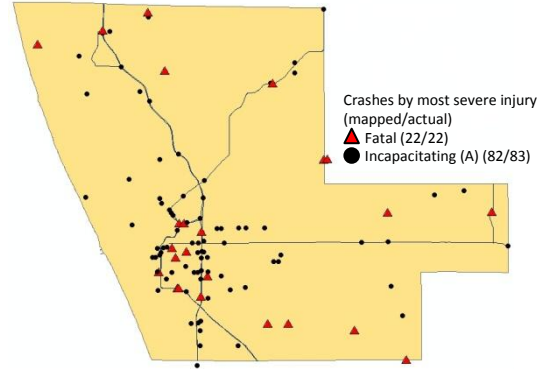
8,979 people

8,887 motor vehicle drivers and passengers

40 bicyclists

51 pedestrians

1 train engineer



Driver Statistics

Age Group				Drivers in Crashes	
	2010* Population	Licensed Drivers	Drivers in Crashes	Per 10K Population	Per 10K Licensed
0 - 15	37,523	717	21	5.6	292.9
16 - 20	12,505	8,341	1,031	824.5	1236.1
21 - 64	98,808	89,169	5,098	516.0	571.7
65 +	23,352	21,140	678	290.3	320.7
Other/Unknown	--	--	519	--	--
TOTAL	172,188	119,367	7,347	426.7	615.5

*2011 Population of Michigan Counties (by single-year of age) not yet available from U.S. Census Bureau

Vehicles in Crashes

Vehicle Type	Motor Vehicles		Fatal Crash		Injury Crash	PDO Crash
	Number of Vehicles	% of Total	Number	% of Total		
Passenger car & station wagon	5,803	79.0	25	75.8	1,136	4,642
Van, motorhome	203	2.8	0	0.0	37	166
Pickup truck	742	10.1	2	6.1	135	605
Small truck under 10,000 lbs. GVWR	147	2.0	1	3.0	27	119
Cycle	83	1.1	2	6.1	59	22
Moped	17	0.2	0	0.0	17	0
Go Cart	2	0.0	0	0.0	2	0
Snowmobile	4	0.1	1	3.0	1	2
Off-Road Vehicle (ORV) / All-Terrain Vehicle (ATV)	1	0.0	0	0.0	1	0
Other	125	1.7	0	0.0	20	105
Truck/bus over 10,000 lbs.	123	1.7	2	6.1	19	102
Unknown	97	1.3	0	0.0	10	87
TOTAL	7,347	100.0	33	100.0	1,464	5,850

Muskegon County Experience

Muskegon County experienced the highest number of fatal crashes (4) and the highest number of persons killed (4) in March and October.

Muskegon County driver statistics indicate 7.0 percent of licensed drivers were age 16-20, and 14.0 percent of drivers in that age group were involved in crashes.

In Muskegon County, motorcycles and snowmobiles accounted for only 1.2 percent of the total vehicles in crashes, but were involved in 9.1 percent of the total fatal crashes.



Crash Type								
	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	
Single Vehicle	1,603	36.7	11	50.0	30	118	134	1,310
Head On	46	1.1	4	18.2	3	6	7	26
Head On - Left Turn	88	2.0	1	4.5	3	13	19	52
Angle	928	21.2	3	13.6	24	79	119	703
Rear End	961	22.0	1	4.5	9	48	122	781
Rear End - Left Turn	64	1.5	0	0.0	3	4	7	50
Rear End - Right Turn	44	1.0	0	0.0	0	1	4	39
Sideswipe - Same Direction	350	8.0	0	0.0	3	10	25	312
Sideswipe - Opposite Direct	88	2.0	0	0.0	4	3	2	79
Other/Unknown	201	4.6	2	9.1	4	8	16	171
Total	4,373	100.0	22	100.0	83	290	455	3,523

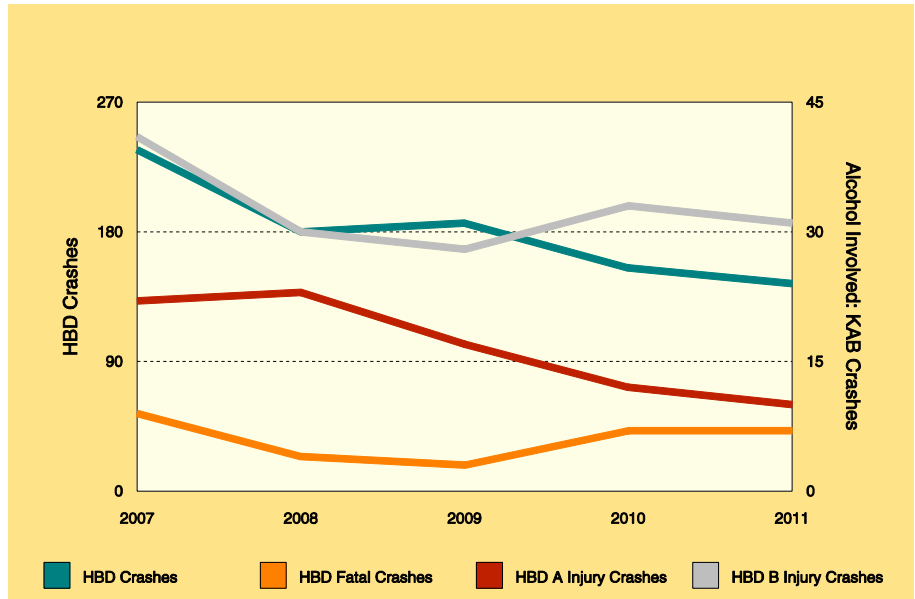
Relationship to Roadway								
Location of First Impact	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	
On Road	3,666	83.8	14	63.6	65	228	378	2,981
Median	34	0.8	0	0.0	1	0	6	27
Shoulder	237	5.4	1	4.5	6	19	19	192
Outside of Shoulder/Curb	367	8.4	7	31.8	11	35	45	269
Gore	23	0.5	0	0.0	0	1	3	19
Other/Unknown	46	1.1	0	0.0	0	7	4	35
Total	4,373	100.0	22	100.0	83	290	455	3,523

Bodily alcohol concentration (BAC) results among all vehicle drivers in alcohol-involved crashes by age

Age group	Total drivers in alcohol-involved crashes	Total drivers tested in all crashes	Total drivers coded drinking, tested	BAC Result Range for Drivers Coded Drinking					
				Total drivers coded drinking	BAC = 0.00	BAC 0.01 g/dL to 0.07 g/dL	BAC 0.08 g/dL to 0.16 g/dL	BAC 0.17 g/dL and above	BAC not reported
0 - 15	0	0	0	0	0	0	0	0	0
16 - 20	22	20	14	14	0	2	6	2	4
21 - 64	166	153	110	123	1	16	28	37	41
65 +	6	8	5	6	0	1	1	1	3
Other/Unknown	15	0	0	0	0	0	0	0	0
TOTAL	209	181	129	143	1	19	35	40	48

Notes:
 BAC measured in grams (g) per deciliter (dL)
 BAC may not be reported if drivers are not tested, or if the results are not available immediately (as in the case of a blood test)
 A driver may be coded by the officer as drinking even though no test is administered.

Crashes Involving Alcohol



Note: Had-Been-Drinking (HBD)

MUSKEGON	All Crashes	HBD Crashes	% HBD	All Fatal Crashes	HBD Fatal Crashes	% HBD	Total A Injury	HBD A Injury	% HBD	Total B Injury	HBD B Injury	% HBD
2007	5,116	237	4.6	23	9	39.1	118	22	18.6	329	41	12.5
2008	5,192	180	3.5	16	4	25.0	111	23	20.7	277	30	10.8
2009	4,481	186	4.2	14	3	21.4	102	17	16.7	308	28	9.1
2010	4,309	155	3.6	15	7	46.7	75	12	16.0	282	33	11.7
2011	4,373	144*	3.3	22	7	31.8	83	10*	12.0	290	31	10.7

* Lowest number reported in the 5-year period.

Restraint use among reported vehicle occupants by vehicle type

Vehicle Type	Total Reported Occupants			Fatalities			Incapacitating			Non-incapacitating			Possible Injury			No Injury		
	Total	Using Restraint	%	Total	Using Restraint	%	Total	Using Restraint	%	Total	Using Restraint	%	Total	Using Restraint	%	Total	Using Restraint	%
Passenger car & station wagon	6,089	5,516	90.6	14	8	57.1	67	55	82.1	268	226	84.3	530	500	94.3	4,944	4,723	95.5
Van, motorhome	213	197	92.5	0	0	0.0	4	4	100.0	5	5	100.0	18	17	94.4	179	171	95.5
Pickup truck	761	687	90.3	0	0	0.0	9	6	66.7	17	14	82.4	39	34	87.2	662	633	95.6
Small truck under 10,000 lbs. GVWR	149	133	89.3	0	0	0.0	1	1	100.0	5	4	80.0	11	10	90.9	129	118	91.5
Cycle	92	89	96.7	2	2	100.0	12	12	100.0	33	33	100.0	21	20	95.2	23	22	95.7
Moped	18	8	44.4	0	0	0.0	3	0	0.0	10	7	70.0	4	1	25.0	1	0	0.0
Go Cart	3	1	33.3	0	0	0.0	0	0	0.0	3	1	33.3	0	0	0.0	0	0	0.0
Snowmobile	4	3	75.0	1	1	100.0	0	0	0.0	0	0	0.0	1	1	100.0	2	1	50.0
Off-Road Vehicle (ORV) /All-Terrain Vehicle (ATV)	2	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	1	0	0.0	1	0	0.0
Other	129	110	85.3	0	0	0.0	2	1	50.0	4	2	50.0	3	3	100.0	115	104	90.4
Truck/bus over 10,000 lbs.	126	109	86.5	0	0	0.0	2	0	0.0	1	0	0.0	2	2	100.0	114	106	93.0
Uncoded & errors	97	6	6.2	0	0	0.0	0	0	0.0	0	0	0.0	1	0	0.0	14	2	14.3
TOTAL	7,683	6,859	89.3	17	11	64.7	100	79	79.0	346	292	84.4	631	588	93.2	6,184	5,880	95.1

Restraint use among reported vehicle occupants by age

Age Group	Total Reported Occupants			Fatalities			Incapacitating			Non-incapacitating			Possible Injury			No Injury		
	Total	Using Restraint	%	Total	Using Restraint	%	Total	Using Restraint	%	Total	Using Restraint	%	Total	Using Restraint	%	Total	Using Restraint	%
0 - 15	108	88	81.5	2	1	50.0	11	6	54.5	28	21	75.0	52	47	90.4	15	13	86.7
16 - 20	1,097	1,036	94.4	2	2	100.0	10	6	60.0	62	48	77.4	97	87	89.7	925	893	96.5
21 - 64	5,246	5,003	95.4	11	7	63.6	67	57	85.1	224	192	85.7	409	387	94.6	4,535	4,360	96.1
65 +	712	687	96.5	2	1	50.0	12	10	83.3	31	30	96.8	70	66	94.3	597	580	97.2
Other/Unknown	520	45	8.7	0	0	0.0	0	0	0.0	1	1	100.0	3	1	33.3	112	34	30.4
TOTAL	7,683	6,859	89.3	17	11	64.7	100	79	79.0	346	292	84.4	631	588	93.2	6,184	5,880	95.1

Bodily alcohol concentration (BAC) results among all vehicle drivers in alcohol-involved crashes by municipality

Municipality	Total drivers in alcohol-involved crashes	Total drivers tested in all crashes	Total drivers coded drinking, tested	BAC Result Range for Drivers Coded Drinking					
				Total drivers coded drinking	BAC = 0.00	BAC 0.01 g/dL to 0.07 g/dL	BAC 0.08 g/dL to 0.16 g/dL	BAC 0.17 g/dL and above	BAC not reported
Blue Lake Twp.	4	3	3	3	0	2	1	0	0
Casnovia	3	1	1	2	0	1	0	0	1
Casnovia Twp.	6	6	4	5	0	0	1	0	4
Cedar Creek Twp.	4	4	3	3	0	1	1	1	0
Dalton Twp.	12	12	10	11	0	1	2	3	5
Eggleston Twp.	17	11	10	10	0	2	3	4	1
Fruitland Twp.	5	6	5	5	0	1	1	0	3
Fruitport	2	1	1	1	0	0	0	0	1
Fruitport Twp.	11	16	8	8	1	0	2	2	3
Holton Twp.	3	5	3	3	0	0	2	0	1
Laketon Twp.	7	8	5	6	0	1	2	0	3
Lakewood Club	0	1	0	0	0	0	0	0	0
Montague	4	2	2	2	0	1	1	0	0
Montague Twp.	6	8	3	4	0	0	1	1	2
Moorland Twp.	3	2	2	2	0	0	0	1	1
Muskegon	49	41	28	31	0	2	7	13	9
Muskegon Heights	9	5	4	4	0	0	0	4	0
Muskegon Twp.	18	13	10	11	0	2	2	3	4
North Muskegon	6	2	2	3	0	0	0	0	3
Norton Shores	28	21	15	19	0	4	6	4	5
Ravenna	0	0	0	0	0	0	0	0	0
Ravenna Twp.	4	6	4	4	0	0	1	2	1
Roosevelt Park	1	1	1	1	0	0	0	1	0
Sullivan Twp.	1	1	1	1	0	1	0	0	0
White River Twp	3	3	2	2	0	0	1	0	1
Whitehall	3	2	2	2	0	0	1	1	0
Whitehall Twp.	0	0	0	0	0	0	0	0	0
Unknown Community	0	0	0	0	0	0	0	0	0
Muskegon County TOTAL	209	181	129	143	1	19	35	40	48

Crashes and injuries by municipality

Municipality	Total				Alcohol-involved				Speed-related			
	Crashes		Persons		Crashes		Persons		Crashes		Persons	
	Total	Fatal	Fatality	Injury	Total	Fatal	Fatality	Injury	Total	Fatal	Fatality	Injury
Blue Lake Twp.	33	1	1	4	3	0	0	0	14	1	1	1
Casnovia	9	0	0	3	2	0	0	2	2	0	0	1
Casnovia Twp.	88	1	1	25	5	0	0	7	22	1	1	5
Cedar Creek Twp.	38	0	0	13	3	0	0	6	14	0	0	5
Dalton Twp.	239	0	0	64	11	0	0	6	68	0	0	25
Eggleston Twp.	120	0	0	36	10	0	0	7	22	0	0	6
Fruitland Twp.	103	0	0	33	5	0	0	2	21	0	0	4
Fruitport	27	0	0	5	1	0	0	1	6	0	0	0
Fruitport Twp.	270	2	2	81	8	0	0	10	58	0	0	7
Holton Twp.	67	1	1	20	3	0	0	2	22	1	1	10
Laketon Twp.	92	0	0	39	6	0	0	11	27	0	0	9
Lakewood Club	19	0	0	2	0	0	0	0	4	0	0	0
Montague	47	0	0	5	2	0	0	1	4	0	0	1
Montague Twp.	77	2	2	18	4	1	1	1	21	1	1	10
Moorland Twp.	57	1	1	13	2	1	1	2	7	1	1	1
Muskegon	1,167	7	7	284	32	1	1	19	142	1	1	16
Muskegon Heights	251	1	1	76	4	0	0	3	10	0	0	3
Muskegon Twp.	528	0	0	167	11	0	0	12	110	0	0	15
North Muskegon	78	0	0	8	3	0	0	0	6	0	0	1
Norton Shores	729	2	2	173	19	1	1	10	167	1	1	32
Ravenna	7	0	0	4	0	0	0	0	1	0	0	2
Ravenna Twp.	77	2	2	12	4	1	1	1	9	0	0	2
Roosevelt Park	20	0	0	4	1	0	0	0	1	0	0	0
Sullivan Twp.	68	1	1	14	1	1	1	2	14	1	1	3
White River Twp	29	1	2	10	2	1	2	4	8	0	0	6
Whitehall	55	0	0	9	2	0	0	2	4	0	0	2
Whitehall Twp.	78	0	0	16	0	0	0	0	18	0	0	2
Unknown Community	0	0	0	0	0	0	0	0	0	0	0	0
Muskegon County TOTAL	4,373	22	23	1,138	144	7	8	111	802	8	8	169

Restraint use among reported vehicle occupants by municipality

Municipality	Total Occupants			Fatalities			Incapacitating			Non-incapacitating			Possible Injury			Not Injured		
	Total	Using Restraint	%	Total	Using Restraint	%	Total	Using Restraint	%	Total	Using Restraint	%	Total	Using Restraint	%	Total	Using Restraint	%
Blue Lake Twp.	38	37	97.4	1	1	100.0	0	0	0.0	2	2	100.0	2	2	100.0	33	32	97.0
Casnovia	13	11	84.6	0	0	0.0	1	1	100.0	1	1	100.0	1	1	100.0	8	8	100.0
Casnovia Twp.	122	113	92.6	1	1	100.0	5	4	80.0	7	4	57.1	13	12	92.3	95	92	96.8
Cedar Creek Twp.	52	49	94.2	0	0	0.0	0	0	0.0	10	9	90.0	3	3	100.0	39	37	94.9
Dalton Twp.	361	342	94.7	0	0	0.0	3	2	66.7	21	17	81.0	40	37	92.5	293	286	97.6
Eggleston Twp.	203	178	87.7	0	0	0.0	4	3	75.0	10	10	100.0	22	20	90.9	153	144	94.1
Fruitland Twp.	140	133	95.0	0	0	0.0	4	4	100.0	5	5	100.0	23	16	69.6	108	108	100.0
Fruitport	51	45	88.2	0	0	0.0	0	0	0.0	0	0	0.0	4	4	100.0	43	41	95.3
Fruitport Twp.	440	395	89.8	2	2	100.0	5	5	100.0	18	12	66.7	55	51	92.7	350	325	92.9
Holton Twp.	91	84	92.3	1	0	0.0	6	5	83.3	7	6	85.7	7	7	100.0	67	66	98.5
Laketon Twp.	148	131	88.5	0	0	0.0	3	2	66.7	11	6	54.5	24	22	91.7	105	101	96.2
Lakewood Club	28	26	92.9	0	0	0.0	1	1	100.0	1	1	100.0	0	0	75.0	26	24	92.3
Montague	74	73	98.6	0	0	0.0	1	1	100.0	0	0	0.0	4	4	100.0	69	68	98.6
Montague Twp.	98	95	96.9	2	2	100.0	3	3	100.0	4	4	100.0	11	10	90.9	77	76	98.7
Moorland Twp.	68	64	94.1	1	0	0.0	3	2	66.7	3	2	66.7	7	7	100.0	54	53	98.1
Muskegon	2,278	1,908	83.8	3	2	66.7	24	19	79.2	91	74	81.3	141	130	92.2	1,811	1,681	92.8
Muskegon Heights	506	395	78.1	0	0	0.0	1	1	100.0	21	18	85.7	47	39	83.0	374	332	88.8
Muskegon Twp.	979	917	93.7	0	0	0.0	14	9	64.3	43	38	88.4	101	99	98.0	796	770	96.7
North Muskegon	149	122	81.9	0	0	0.0	2	2	100.0	2	2	100.0	2	2	100.0	135	116	85.9
Norton Shores	1,343	1,271	94.6	1	1	100.0	11	8	72.7	66	61	92.4	88	88	100.0	1,130	1,113	98.5
Ravenna	10	7	70.0	0	0	0.0	1	1	100.0	1	0	0.0	2	1	50.0	5	5	100.0
Ravenna Twp.	90	83	92.2	2	0	0.0	1	1	100.0	5	4	80.0	6	6	100.0	76	72	94.7
Roosevelt Park	38	33	86.8	0	0	0.0	0	0	0.0	2	2	100.0	1	1	100.0	32	30	93.8
Sullivan Twp.	98	95	96.9	1	1	100.0	3	2	66.7	6	6	100.0	5	5	100.0	82	81	98.8
White River Twp	41	37	90.2	2	1	50.0	3	2	66.7	2	1	50.0	5	5	100.0	29	28	96.6
Whitehall	100	96	96.0	0	0	0.0	0	0	0.0	4	4	100.0	5	5	100.0	87	87	100.0
Whitehall Twp.	124	119	96.0	0	0	0.0	1	1	100.0	3	3	100.0	12	11	91.7	107	104	97.2
Unknown Community	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Muskegon County TOTAL	7,683	6,859	89.3	17	11	64.7	100	79	79.0	346	292	84.4	631	588	93.2	6,184	5,880	95.1

This page left intentionally blank