



Traffic Safety Facts
Ohio
2012-2016



This Report Contains Data From the Following Sources:

Fatality Data - NCSA Fatality Analysis Reporting System (FARS): 2012-2015 Final File and 2016 Annual Report File (ARF)

Observed Safety Belt Data - NCSA National Occupant Protection Use Survey (NOPUS) and the Ohio State Survey

Vehicle Miles of Travel Data and Motorcycle Registrations - Federal Highway Administration (FHWA)

Population Data - U.S. Bureau of the Census



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Traffic Safety Performance (Core Outcome) Measures* For Ohio

Core Outcome Measures		Year									
		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Traffic Fatalities	Total (C-1)	1,255	1,191	1,022	1,080	1,017	1,121	989	1,006	1,110	1,132
	Rural	815	762	660	713	661	640	513	496	492	508
	Urban	440	429	362	366	356	481	471	506	610	614
	Unknown	0	0	0	1	0	0	5	4	8	10
Fatalities Per 100 Million VMT**	Total (C-3)	1.13	1.10	0.92	0.97	0.91	0.99	0.88	0.89	0.98	
	Rural	2.23	2.15	1.82	1.97	1.82	1.75	1.54	1.49	1.46	
	Urban	0.59	0.59	0.49	0.48	0.47	0.63	0.59	0.64	0.76	
Passenger Vehicle Occupant Fatalities (All Seat Positions)	Total	907	816	717	769	693	791	699	732	745	749
	Restrained	363	332	268	303	268	298	288	295	291	327
	Unrestrained (C-4)	525	443	400	404	358	416	352	374	385	355
	Unknown	19	41	49	62	67	77	59	63	69	67
Alcohol-Impaired Driving Fatalities (BAC=.08+)** (C-5)		389	351	325	335	310	389	266	302	309	324
Speeding-Related Fatalities (C-6)		280	269	287	321	299	354	273	274	207	257
Motorcyclist Fatalities	Total (C-7)	189	213	166	170	165	162	132	136	168	199
	Helmeted	66	63	36	43	45	38	43	42	55	53
	Unhelmeted (C-8)	123	146	130	125	120	124	87	91	112	145
	Unknown	0	4	0	2	0	0	2	3	1	1
Drivers Involved in Fatal Crashes	Total	1,738	1,649	1,424	1,504	1,433	1,572	1,477	1,415	1,630	1,634
	Aged Under 15	5	3	0	1	2	1	2	0	0	1
	Aged 15-20	216	188	175	158	158	149	121	138	153	155
	Aged Under 21 (C-9)	221	191	175	159	160	150	123	138	153	156
	Aged 21 and Over	1,503	1,443	1,234	1,330	1,259	1,409	1,336	1,267	1,453	1,451
	Unknown Age	14	15	15	15	14	13	18	10	24	27
Pedestrian Fatalities (C-10)		108	99	85	93	104	113	85	87	116	134
Bicyclist and Other Cyclist Fatalities***** (C-11)		17	18	19	11	16	18	19	11	25	18
Observed Seat Belt Use**** (B-1)		82	83	84	84	84	82	85	85	84	84

*These Performance Measures Were Developed By The National Highway Traffic Safety Administration (NHTSA) and the Governors Highway Safety Association (GHSA) (See Publication: DOT HS 811 025)

**2016 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

Based on the BAC of All Involved Drivers and Motorcycle Riders (Operators) Only *Ohio Data: State Survey

*****On March 11th, 2014 GHSA and NHTSA agreed on bike fatalities as a newly required performance core measure

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Fatality Rates: Ohio , U.S. and Best State

Year		Fatalities	Total Vehicle Miles Traveled (Millions)	Fatalities Per 100 Million Vehicle Miles Traveled	Total Population	Fatalities Per 100,000 Population
2012	Ohio	1,121	112,715	0.99	11,550,839	9.70
	US	33,782	2,969,433	1.14	313,998,379	10.76
	Best State*			0.42		2.36
2013	Ohio	989	112,767	0.88	11,570,022	8.55
	US	32,893	2,988,280	1.10	316,204,908	10.40
	Best State*			0.57		3.08
2014	Ohio	1,006	112,766	0.89	11,594,408	8.68
	US	32,744	3,025,656	1.08	318,563,456	10.28
	Best State*			0.62		3.49
2015	Ohio	1,110	113,673	0.98	11,605,090	9.56
	US	35,485	3,095,373	1.15	320,896,618	11.06
	Best State*			0.57		3.43
2016	Ohio	1,132			11,614,373	9.75
	US	37,461			323,127,513	11.59
	Best State*					3.96

*State (or States) With Lowest Rates: Lowest VMT and Population Rates Could Be in Different States

2016 National VMT is a Preliminary Estimate and Subject to Change

2016 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

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Alcohol-Impaired Driving Fatalities**:
 Ohio, U.S. and Best State

Year		Total Fatalities in all Crashes	Alcohol-Impaired Driving Fatalities (BAC = .08+)		
			Number	Percent	Per 100 Million VMT
2012	Ohio	1,121	389	35	0.35
	US	33,782	10,336	31	0.35
	Best State*			15	0.08
2013	Ohio	989	266	27	0.24
	US	32,893	10,084	31	0.34
	Best State*			17	0.14
2014	Ohio	1,006	302	30	0.27
	US	32,744	9,943	30	0.33
	Best State*			18	0.11
2015	Ohio	1,110	309	28	0.27
	US	35,485	10,320	29	0.33
	Best State*			15	0.14
2016	Ohio	1,132	324	29	
	US	37,461	10,497	28	
	Best State*			19	

*State (or States) With Lowest Percents: Lowest Percents Could Be in Different States

**Based on the BAC of All Involved Drivers and Motorcycle Riders (Operators) Only

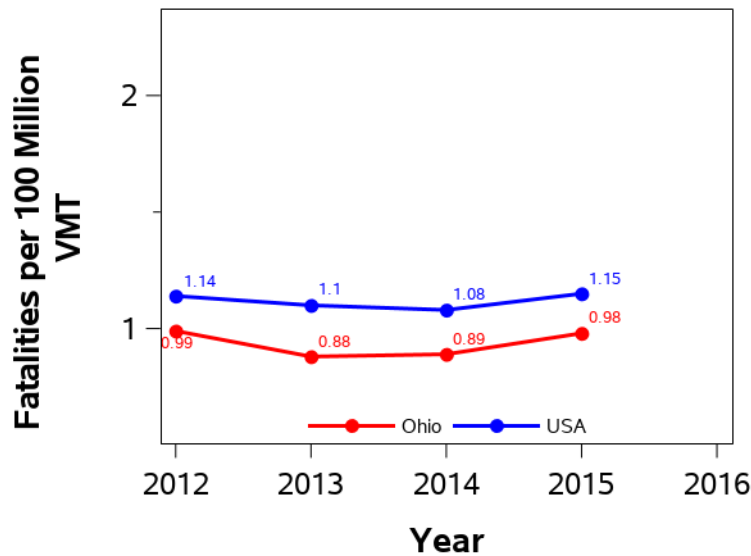
2016 National VMT is a Preliminary Estimate and Subject to Change

2016 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

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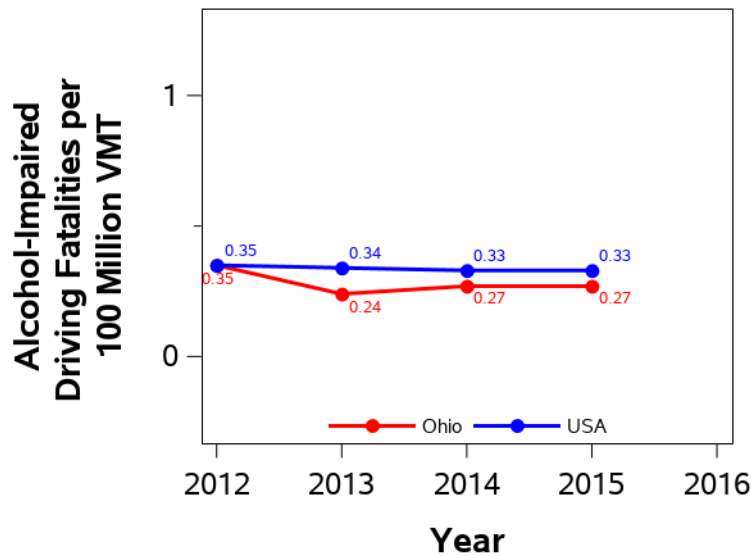


Fatalities per 100 Million VMT



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Alcohol-Impaired Driving Fatalities per 100 Million VMT



2016 National VMT is a Preliminary Estimate and Subject to Change
2016 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

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Blood Alcohol Concentration (BAC) Reporting Rates
For Drivers/Motorcycle Riders (Operators)
Involved in Fatal Crashes:
Ohio, U.S. and Best State

Year		Surviving Drivers/Motorcycle Riders			Killed Drivers/Motorcycle Riders			Total Drivers/Motorcycle Riders		
		Total	With Blood Alcohol Concentration (BAC) Results Reported to FARS		Total	With Blood Alcohol Concentration (BAC) Results Reported to FARS		Total	With Blood Alcohol Concentration (BAC) Results Reported to FARS	
			Number	Percent		Number	Percent		Number	Percent
2012	Ohio	802	169	21	770	569	74	1,572	738	47
	US	24,174	7,569	31	21,490	16,097	75	45,664	23,666	52
	Best State*			88			95			91
2013	Ohio	787	118	15	690	544	79	1,477	662	45
	US	23,860	6,975	29	20,943	15,661	75	44,803	22,636	51
	Best State*			81			95			86
2014	Ohio	713	210	29	702	619	88	1,415	829	59
	US	23,883	6,781	28	20,788	15,352	74	44,671	22,133	50
	Best State*			88			96			89
2015	Ohio	862	335	39	768	651	85	1,630	986	60
	US	26,814	7,486	28	22,348	16,469	74	49,162	23,955	49
	Best State*			88			96			90
2016	Ohio	873	241	28	761	630	83	1,634	871	53
	US	28,354	6,590	23	23,560	14,453	61	51,914	21,043	41
	Best State*			88			96			87

*State (or States) With Highest Percents: Highest Percents Could Be in Different States

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Daytime Front Seat (Outboard Only) Passenger Vehicle Occupants, Aged 5 and Over, by Restraint Use:
Fatalities and Observed
Ohio, U.S. and Best State

Year		Fatalities - Restrained**	Observed - Restrained***
		Percent	Percent
2012	Ohio	53	82
	US	58	86
	Best State*	79	97
2013	Ohio	51	85
	US	61	87
	Best State*	100	98
2014	Ohio	53	85
	US	61	87
	Best State*	80	98
2015	Ohio	55	84
	US	62	89
	Best State*	80	97
2016	Ohio	58	84
	US	61	90
	Best State*	100	97

*State With Highest Percent. Fatal Crash and Observed Percents Can Be Different States

**Percent Based Only Where Restraint Use Was Known

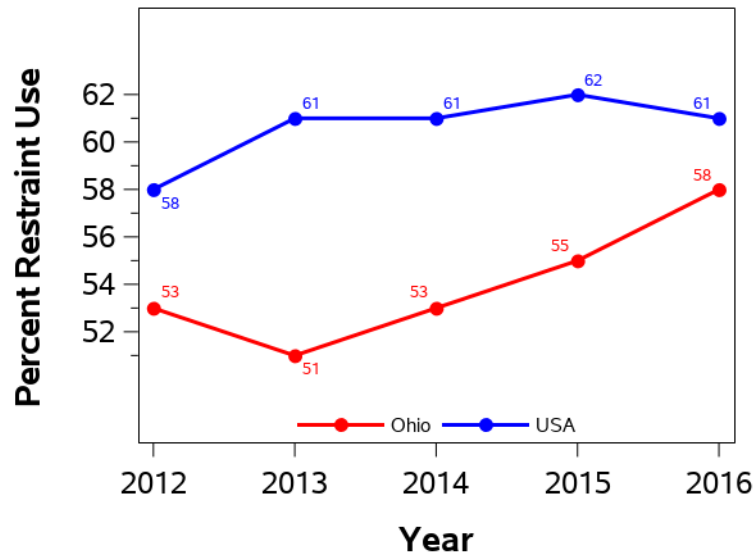
***USA Data: National Occupant Protection Use Survey. Ohio Data: State Survey

Note: The Purpose of this Table is to Compare (as closely as possible) the Use of Restraint Systems
by Fatally Injured Occupants with Occupants in all Driving Situations

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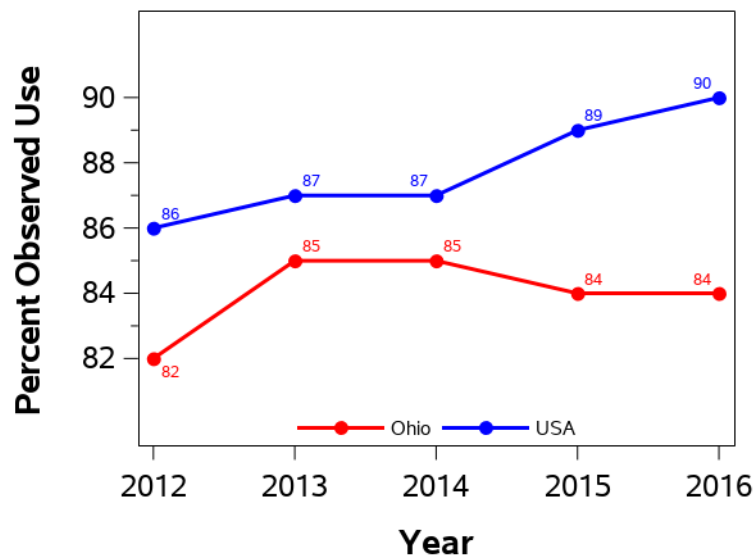
Daytime Front Seat (Outboard Only) Passenger Vehicle Occupant Fatalities,
Aged 5 and Over, by Percent Restraint Use*



*Percent Based Only Where Restraint Use Was Known

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Daytime Front Seat (Outboard Only) Passenger Vehicle Occupants Observed,
Aged 5 and Over, by Percent Restraint Use*



*USA Data: National Occupant Protection Use Survey. Ohio Data: State Survey

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Ohio Passenger Vehicle Occupant Fatalities Age 5 and Above
by Restraint Use and Lives Saved Estimates

Year	Fatalities Age 5 and Above					Lives Saved Estimates**	
	Total	Restrained	Unrestrained	Unknown Restraint Use	Percent Known Restrained*	Lives Saved at Current Belt Use	Additional Lives Savable at 100% Belt Usage
2012	785	293	416	76	41	382	147
2013	693	286	350	57	45	361	112
2014	725	289	373	63	44	371	121
2015	740	286	385	69	43	394	122
2016	745	325	353	67	48	409	113

*Percent Based Only Where Restraint Use Was Known

**Lives Saved Estimates (Sum of columns may not equal other published numbers due to rounding)

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Ohio Passenger Vehicle Occupant Fatalities Age 4 and Under
by Restraint Use and Lives Saved Estimates

Year	Fatalities Age 4 and Under					Lives Saved Estimates**
	Total	Restrained	Unrestrained	Unknown Restraint Use	Percent Known Restrained*	Lives Saved at Current Seat Belt and Child Safety Seat Usage
2012	6	5	0	1	100	10
2013	6	2	2	2	50	6
2014	7	6	1	0	86	7
2015	4	4	0	0	100	5
2016	4	2	2	0	50	3

*Percent Based Only Where Restraint Use Was Known

**Lives Saved Estimates

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**Ohio Motorcyclist Fatalities
by Helmet Use and Lives Saved Estimates**

Year	Fatalities					Lives Saved Estimates**	
	Total	Helmeted	Unhelmeted	Unknown Helmet Use	Percent Known Helmeted*	Lives Saved at Current Helmet Use	Additional Lives Savable at 100% Helmet Usage
2012	162	38	124	0	23	22	46
2013	132	43	87	2	33	26	33
2014	136	42	91	3	32	26	35
2015	168	55	112	1	33	33	42
2016	199	53	145	1	27	32	55

*Percent Based Only Where Helmet Use Was Known

**Lives Saved Estimates (Sum of columns may not equal other published numbers due to rounding)

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Ohio Fatalities by Person Type

Person Type		2012		2013		2014		2015		2016	
		#	%*	#	%*	#	%*	#	%*	#	%*
Occupants	Passenger Car	493	44	427	43	469	47	449	40	471	42
	Light Truck - Pickup	130	12	105	11	89	9	104	9	99	9
	Light Truck - Utility	108	10	121	12	130	13	130	12	135	12
	Light Truck - Van	58	5	46	5	42	4	58	5	40	4
	Light Truck - Other	2	0	0	0	2	0	4	0	4	0
	Large Truck	15	1	27	3	14	1	28	3	14	1
	Bus	1	0	0	0	0	0	0	0	0	0
	Other/Unknown Occupants	17	2	18	2	18	2	20	2	10	1
	<i>Total Occupants</i>	824	74	744	75	764	76	793	71	773	68
Motorcyclists	<i>Total Motorcyclists</i>	162	14	132	13	136	14	168	15	199	18
Nonoccupants	Pedestrian	113	10	85	9	87	9	116	10	134	12
	Bicyclist and Other Cyclist	18	2	19	2	11	1	25	2	18	2
	Other/Unknown Nonoccupants	4	0	9	1	8	1	8	1	8	1
	<i>Total Nonoccupants</i>	135	12	113	11	106	11	149	13	160	14
Total	Total	1,121	100	989	100	1,006	100	1,110	100	1,132	100

*Sum of Percents May Not = 100 Due to Individual Cell Rounding

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Ohio Fatalities by Crash Type

Crash Type	2012	2013	2014	2015	2016
Total Fatalities (All Crashes)*	1,121	989	1,006	1,110	1,132
- (1) Single Vehicle	599	560	540	593	594
- (2) Involving a Large Truck	152	131	130	167	123
- (3) Involving Speeding	354	273	274	207	257
- (4) Involving a Rollover	250	232	253	231	241
- (5) Involving a Roadway Departure	661	590	625	658	670
- (6) Involving an Intersection (or Intersection Related)	260	217	256	295	320

(1) Crash Involved Only One Coded Vehicle

(2) Crash Involved at Least One Large Truck

(3) Crash Involved at Least One Vehicle Speeding

(4) Crash Involved at Least One Vehicle That Rolled Over

(5) Crash Involved at Least One Vehicle That Departed the Roadway (FHWA Definition)

(6) Crash Occured Within an Intersection or Within the Approach to an Intersection

*A Fatality Can Be in More Than One Category. Therefore Sum of the Individual Cells Will Not Equal the Total Due to Double Counting

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Ohio Motorcyclist Fatalities by Age

Year	Age						Total
	<20	20-29	30-39	40-49	50-59	>59	
2012	3	28	26	29	47	29	162
2013	5	27	22	27	28	23	132
2014	2	23	24	27	40	20	136
2015	5	36	17	38	44	28	168
2016	3	28	34	44	49	41	199

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Ohio Motorcyclist Fatalities Per 100,000 Registered Motorcycles

Year	Motorcyclist Fatalities	Total Motorcycle Registrations*	Motorcyclist Fatalities Per 100,000 Motorcycle Registrations
2012	162	339,688	47.69
2013	132	402,264	32.81
2014	136	404,770	33.60
2015	168	404,956	41.49
2016	199		

*Data Source: FHWA

*2016 Motorcycle Registrations are Not Yet Available

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Ohio Fatalities by Person Type and Race/Hispanic Origin

Person Type by Race/Hispanic Origin		2012	2013	2014	2015
Occupants (All Vehicle Types)	Hispanic	19	15	20	37
	White Non-Hispanic	877	747	778	805
	Black, Non-Hispanic	82	92	89	104
	American Indian, Non-Hispanic/Unknown	0	0	2	1
	Asian, Non-Hispanic/Unknown	2	5	2	4
	Multiple Races, Non-Hispanic/Unknown	1	2	1	1
	All Other Non-Hispanic or Race	3	4	3	4
	Unknown Race and Unknown Hispanic	2	11	5	5
	<i>Total</i>	986	876	900	961
Non-Occupants (Pedestrians, Pedalcyclists and Other/Unknown NonOccupants)					
	Hispanic	8	3	5	9
	White Non-Hispanic	101	87	79	106
	Black, Non-Hispanic	23	22	21	31
	American Indian, Non-Hispanic/Unknown	0	0	0	0
	Asian, Non-Hispanic/Unknown	1	0	1	1
	Multiple Races, Non-Hispanic/Unknown	0	0	0	0
	All Other Non-Hispanic or Race	2	0	0	1
	Unknown Race and Unknown Hispanic	0	1	0	1
	<i>Total</i>	135	113	106	149
Total		1,121	989	1,006	1,110

2016 Race/Hispanic Origin Data is Not Yet Complete

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5 Year Trend For The Top 10 Counties of 2016 - Fatalities

Ohio Counties by 2016 Ranking		Fatalities					Percent of Total				
		2012	2013	2014	2015	2016	2012	2013	2014	2015	2016
1	Franklin County	88	76	74	85	94	8	8	7	8	8
2	Cuyahoga County	48	56	46	75	82	4	6	5	7	7
3	Hamilton County	57	38	49	54	61	5	4	5	5	5
4	Montgomery County	42	55	42	56	60	4	6	4	5	5
5	Summit County	29	29	32	25	41	3	3	3	2	4
6	Lorain County	29	14	10	34	38	3	1	1	3	3
7	Lucas County	36	34	41	34	35	3	3	4	3	3
8	Stark County	33	26	44	19	32	3	3	4	2	3
9	Butler County	25	19	29	29	23	2	2	3	3	2
10	Delaware County	15	10	12	13	23	1	1	1	1	2
Sub Total 1.*	Top Ten Counties	422	381	403	446	489	38	39	40	40	43
Sub Total 2.**	All Other Counties	699	608	603	664	643	62	61	60	60	57
Total	All Counties	1,121	989	1,006	1,110	1,132	100	100	100	100	100

*This Sub Total is the Total for the Top Ten Counties

**This Sub Total is the Total for all Counties Outside the Top Ten

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5 Year Trend For The Top 10 Counties of 2016 - Fatalities Year to Year Percent Change

Ohio Counties by 2016 Ranking		Fatalities					Percent Change From Previous Year			
		2012	2013	2014	2015	2016	2013	2014	2015	2016
1	Franklin County	88	76	74	85	94	-14	-3	15	11
2	Cuyahoga County	48	56	46	75	82	17	-18	63	9
3	Hamilton County	57	38	49	54	61	-33	29	10	13
4	Montgomery County	42	55	42	56	60	31	-24	33	7
5	Summit County	29	29	32	25	41	0	10	-22	64
6	Lorain County	29	14	10	34	38	-52	-29	240	12
7	Lucas County	36	34	41	34	35	-6	21	-17	3
8	Stark County	33	26	44	19	32	-21	69	-57	68
9	Butler County	25	19	29	29	23	-24	53	0	-21
10	Delaware County	15	10	12	13	23	-33	20	8	77
Sub Total 1.*	Top Ten Counties	422	381	403	446	489	-10	6	11	10
Sub Total 2.**	All Other Counties	699	608	603	664	643	-13	-1	10	-3
Total	All Counties	1,121	989	1,006	1,110	1,132	-12	2	10	2

*This Sub Total is the Total for the Top Ten Counties

**This Sub Total is the Total for all Counties Outside the Top Ten

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5 Year Trend For The Top 10 Counties of 2016 - Fatality Rates

Median Rate for all U.S. Counties: 17.72

Ohio Counties by 2016 Ranking		Fatalities Per 100,000 Population				
		2012	2013	2014	2015	2016
1	Vinton County	15.11	22.59	53.09	53.76	46.44
2	Morgan County	13.36	26.76	0.00	40.58	40.53
3	Harrison County	57.31	25.60	38.60	19.45	32.66
4	Paulding County	10.38	31.30	15.78	21.08	31.80
5	Fayette County	13.87	27.82	24.40	31.42	31.39
6	Coshocton County	24.44	5.44	19.14	19.13	30.05
7	Morrow County	20.02	31.45	14.25	34.20	28.54
8	Champaign County	15.16	15.20	2.56	12.82	28.39
9	Williams County	15.98	10.68	16.11	24.27	27.01
10	Ross County	25.83	12.94	11.67	9.07	25.97
<i>Sub Rate 1.* Top Ten Counties</i>		31.54	27.43	28.56	30.16	29.84
<i>Sub Rate 2.** All Other Counties</i>		8.95	8.00	8.16	9.04	9.19
<i>Total Rate All Counties</i>		9.70	8.55	8.68	9.56	9.75

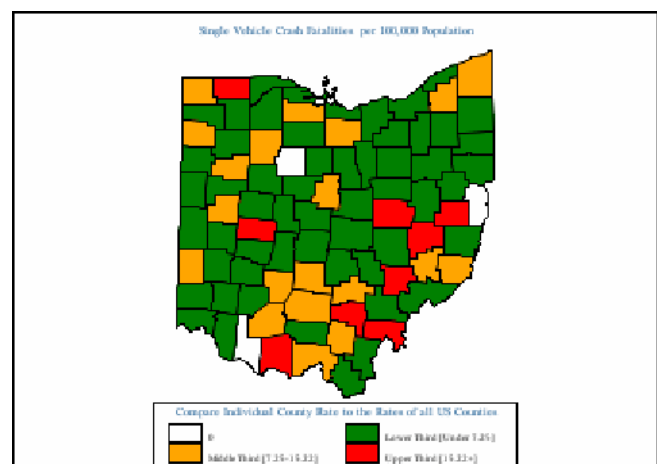
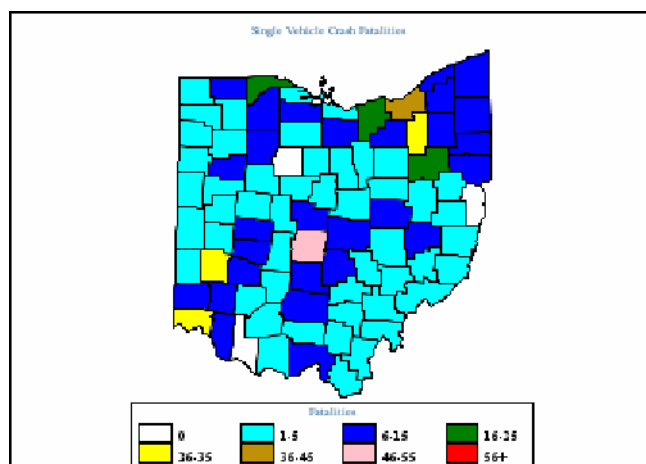
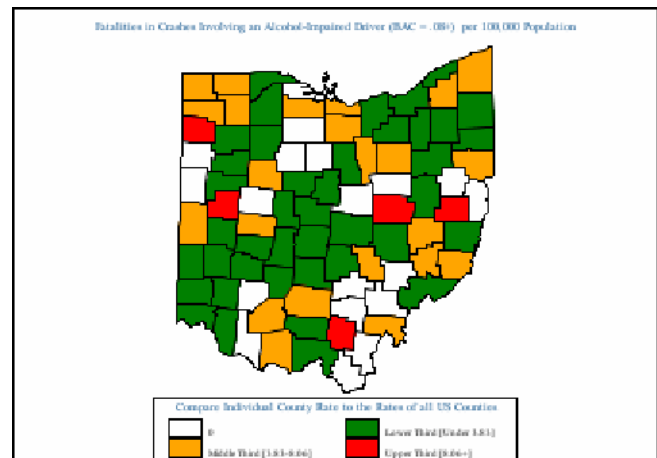
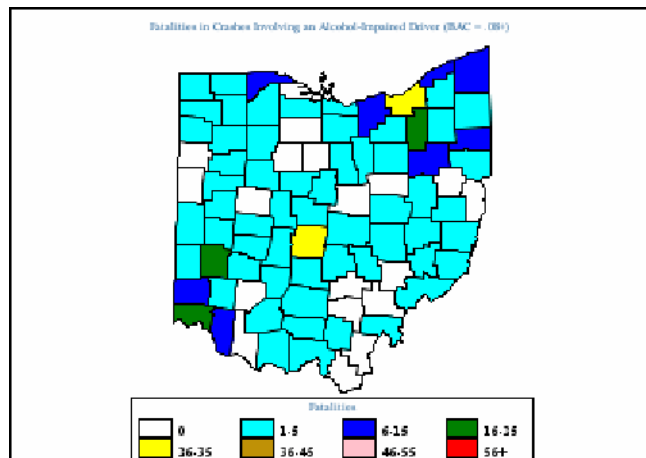
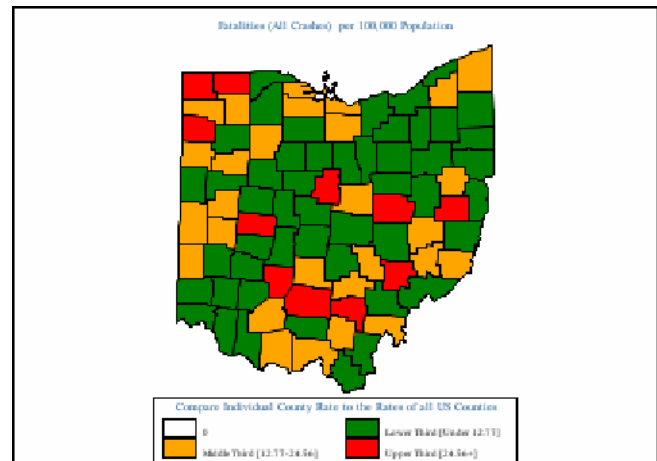
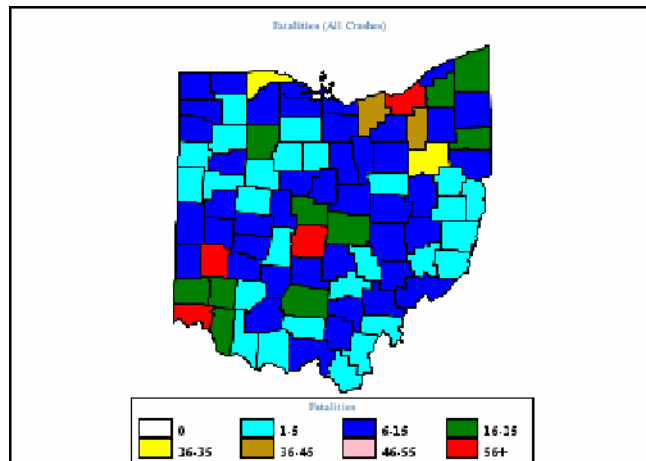
*This Sub Rate is the Rate for the Top Ten Counties

**This Sub Rate is the Rate for all Counties Outside the Top Ten

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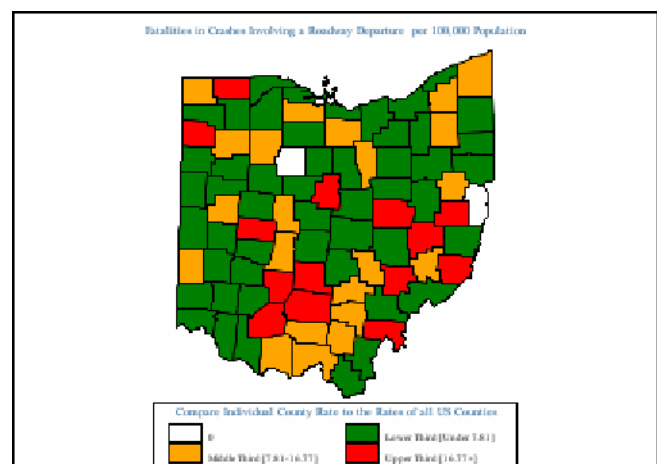
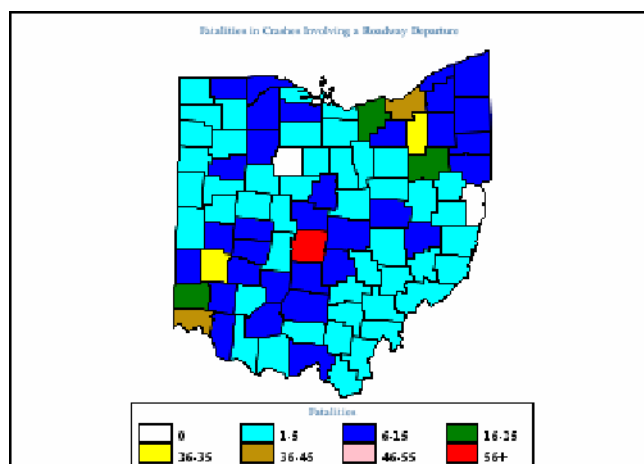
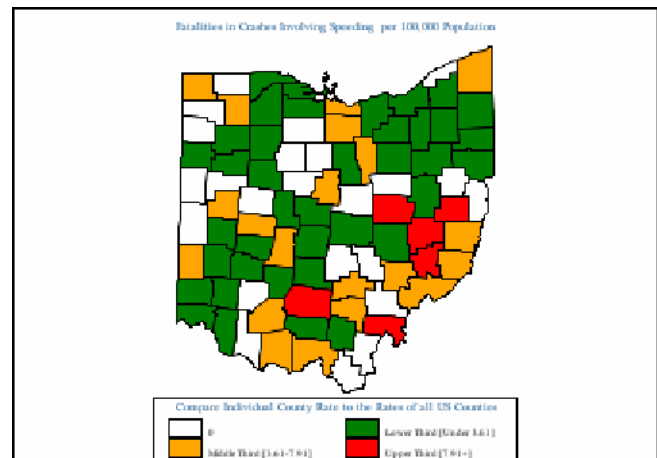
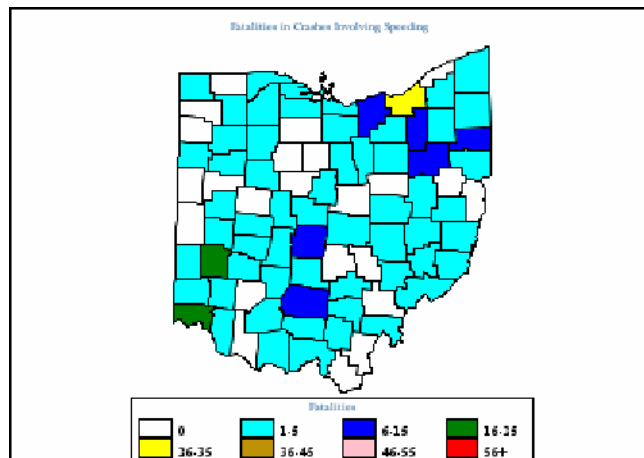
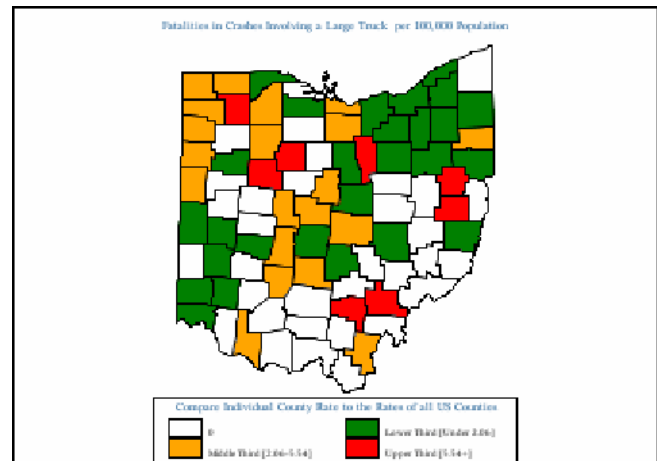
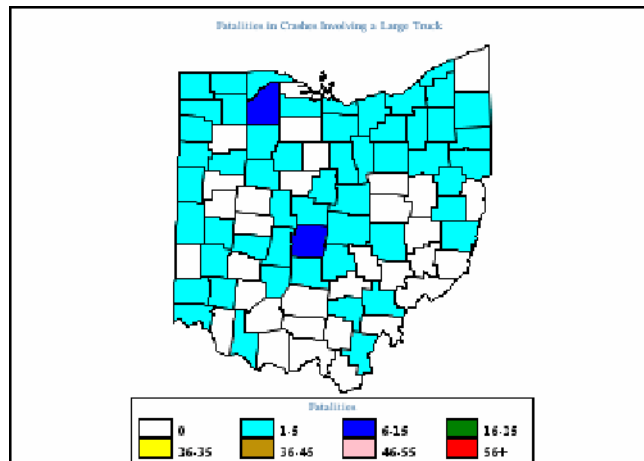


Ohio Motor Vehicle Crash Fatality Maps for 2016



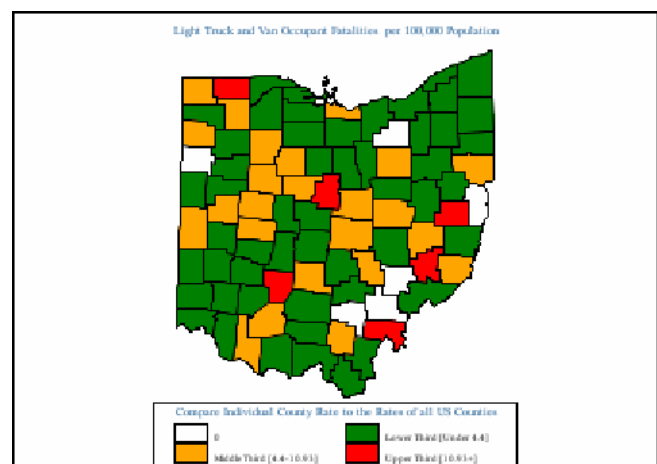
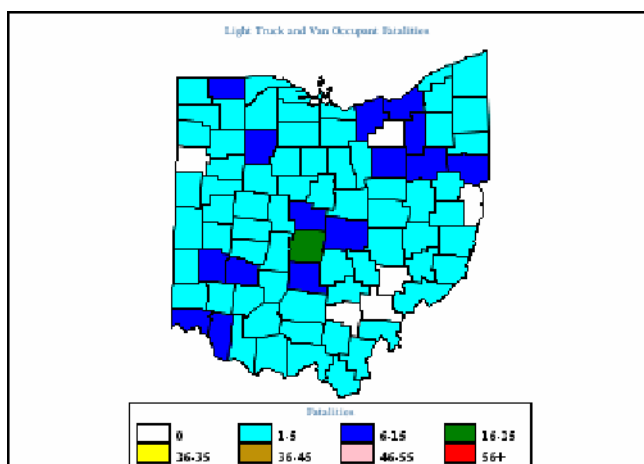
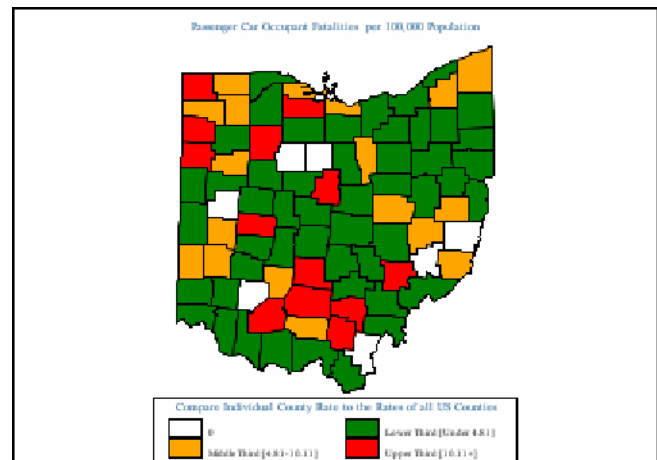
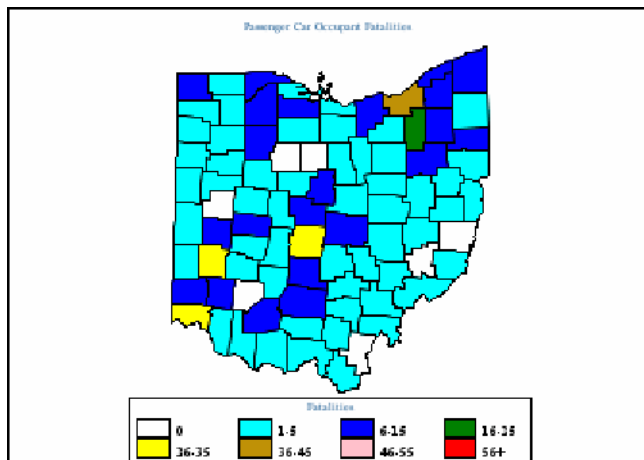
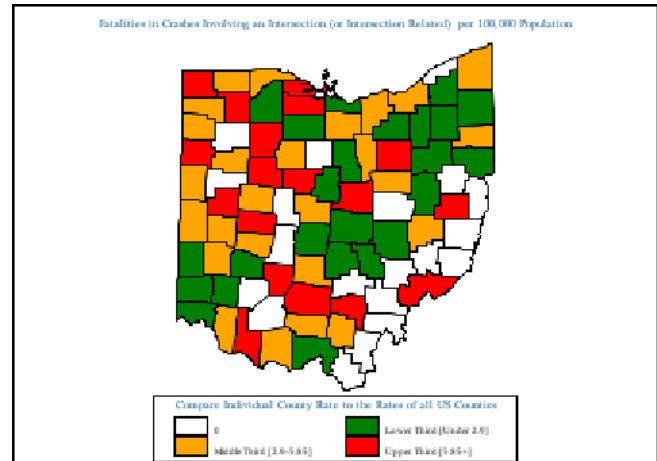
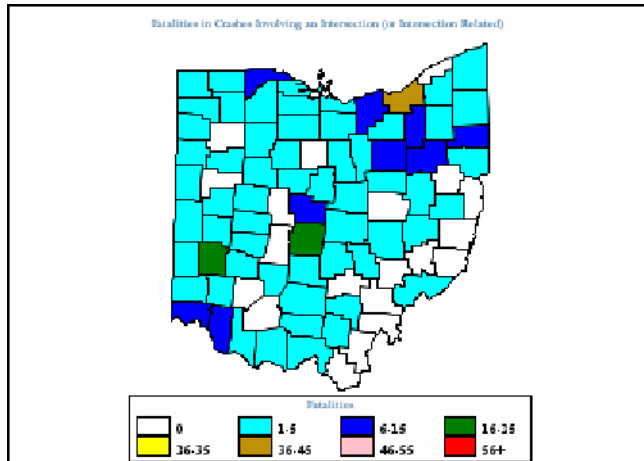


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