



Traffic Safety Facts Ohio 2003-2007



This Report Contains Data From the Following Sources:

- Fatality Data - NCSA Fatality Analysis Reporting System (FARS): 2003-2006 Final File and 2007 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



Table of Contents

3. Traffic Safety Performance Measures
4. Fatality Rates: Ohio , U.S. and Best State
5. Alcohol-Related Fatalities: Ohio , U.S. and Best State (Old Definition)
6. Alcohol-Impaired Driving Fatalities: Ohio , U.S. and Best State (New Definition)
7. Fatalities Per 100 Million VMT: Ohio , U.S.
7. Alcohol-Impaired Driving Fatalities Per 100 Million VMT: Ohio , U.S.
8. Blood Alcohol Concentration (BAC) Reporting Rates For Drivers/Motorcycle Rider (Operators) Involved in Fatal Crashes: Ohio , U.S. and Best State
9. Front Seat Passenger Vehicle Occupants, Aged 5 and Over, by Restraint Use: Fatalities and Observed Ohio , U.S. and Best State
10. Front Seat Passenger Vehicle Occupant Fatalities, Aged 5 and Over, by Percent Restraint Use: Ohio , U.S.
10. Front Seat Passenger Vehicle Occupants Observed, Aged 5 and Over, by Percent Restraint Use: Ohio , U.S.
11. Passenger Vehicle Occupant Fatalities Aged 5 and Above by Restraint Use and Lives Saved Estimates
11. Passenger Vehicle Occupant Fatalities Aged Under 5 by Restraint Use and Lives Saved Estimates
12. Motorcyclist Fatalities by Helmet Use and Lives Saved Estimates
13. Fatalities by Person Type
14. Fatalities by Crash Type
15. Motorcyclist Fatalities by Age
15. Motorcyclist Fatalities Per 100,000 Registered Motorcycles
16. Fatalities by Person Type and Race/Hispanic Origin
17. Top 10 Counties for Fatalities
18. Top 10 Counties for Fatalities: Year to Year Percent Change
19. Top 10 Counties for Fatality Rates
20. Motor Vehicle Crash Fatality Maps:
Total Fatalities, Alcohol-Impaired Driving Fatalities, Single Vehicle Crash Fatalities
21. Motor Vehicle Crash Fatality Maps:
Large Truck Crash Fatalities, Speeding Involved Fatalities, Roadway Departure Fatalities
22. Motor Vehicle Crash Fatality Maps:
Intersection Fatalities, Passenger Car Occupants, Light Truck and Van Occupants
23. Motor Vehicle Crash Fatality Maps:
Motorcyclist Fatalities, Pedestrian Fatalities, Pedestrian Fatalities



Traffic Safety Performance (Core Outcome) Measures For Ohio *

Core Outcome Measures		Year				
		2003	2004	2005	2006	2007
Total Traffic Fatalities		1,274	1,286	1,321	1,238	1,257
Fatalities Per 100 Million Vehicle Miles Driven**	Total	1.17	1.15	1.20	1.11	
	Rural	1.79	2.08	2.22	2.30	
	Urban	0.85	0.67	0.67	0.53	
Passenger Vehicle Occupant Fatalities (All Seat Positions)	Total	988	981	1,006	913	909
	Restrained	370	388	421	387	364
	Unrestrained	590	589	583	503	525
	Unknown	28	4	2	23	20
Alcohol-Impaired Driving Fatalities (BAC=.08+)**		370	392	395	386	391
Speeding-Related Fatalities		263	272	276	253	277
Motorcyclist Fatalities	Total	136	134	178	158	190
	Helmeted	33	36	46	40	66
	Unhelmeted	102	98	132	117	124
	Unknown	1	0	0	1	0
Drivers Involved in Fatal Crashes	Total	1,863	1,811	1,940	1,736	1,742
	Aged Under 15	2	6	4	2	5
	Aged 15-20	283	265	248	227	216
	Aged Under 21	285	271	252	229	221
	Aged 21 and Over	1,568	1,525	1,670	1,488	1,506
	Unknown Age	10	15	18	19	15
Pedestrian Fatalities		99	94	95	96	107

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

**2007 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

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

[Back To The Table of Contents](#)



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
2003	Ohio	1,274	108,938	1.17	11,435,980	11.14
	US	42,884	2,890,450	1.48	290,447,644	14.76
	Best State*			0.83		7.18
2004	Ohio	1,286	111,654	1.15	11,452,808	11.23
	US	42,836	2,964,788	1.44	293,191,511	14.61
	Best State*			0.87		7.40
2005	Ohio	1,321	110,491	1.20	11,459,776	11.53
	US	43,510	2,989,430	1.46	295,895,897	14.70
	Best State*			0.80		6.86
2006	Ohio	1,238	111,247	1.11	11,463,513	10.80
	US	42,708	3,014,116	1.42	298,754,819	14.30
	Best State*			0.78		6.32
2007	Ohio	1,257			11,466,917	10.96
	US	41,059	2,996,409	1.37	301,621,157	13.61
	Best State*					6.47

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

2007 National VMT is a Preliminary Estimate and Subject to Change

2007 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

[Back To The Table of Contents](#)



Fatalities By The Highest Blood Alcohol Concentration (BAC) in the Crash**:
Ohio , U.S. and Best State
(Old Definition)

Year		Total Fatalities in all Crashes	Highest BAC level in the Crash				
			BAC = .01+		BAC = .08+		Per 100 Million VMT
			Number	Percent	Number	Percent	
2003	Ohio	1,274	466	37	401	31	0.37
	US	42,884	17,105	40	14,678	34	0.51
	Best State*			15		13	0.16
2004	Ohio	1,286	492	38	417	32	0.37
	US	42,836	16,919	39	14,593	34	0.49
	Best State*			25		21	0.27
2005	Ohio	1,321	519	39	419	32	0.38
	US	43,510	17,590	40	15,102	35	0.51
	Best State*			14		12	0.14
2006	Ohio	1,238	495	40	415	34	0.37
	US	42,708	17,738	42	15,144	35	0.50
	Best State*			24		20	0.22
2007	Ohio	1,257	504	40	419	33	
	US	41,059	17,036	41	14,575	35	0.49
	Best State*			23		19	

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

**Based on the BAC of All Involved Drivers, Motorcycle Riders (Operators), Pedalcyclists and Pedestrians

2007 National VMT is a Preliminary Estimate and Subject to Change

2007 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

[Back To The Table of Contents](#)



Alcohol-Impaired Driving Fatalities**:
Ohio, U.S. and Best State
(New Definition)

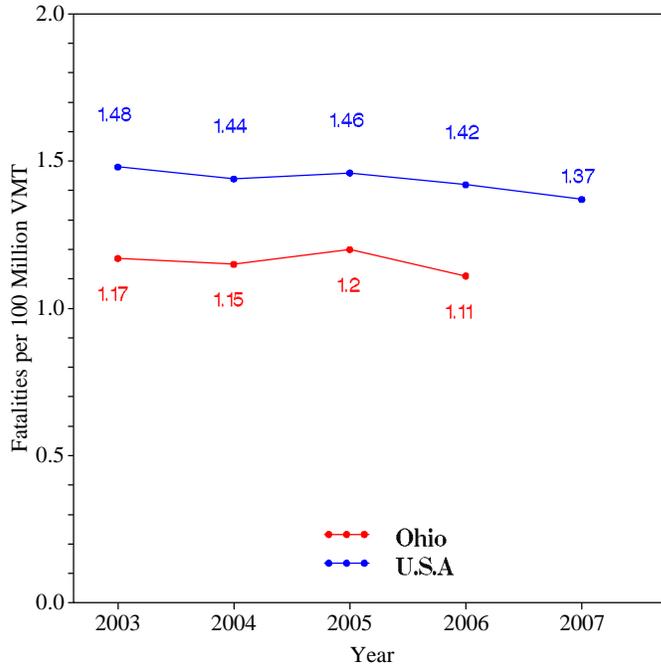
Year		Total Fatalities in all Crashes	Alcohol-Impaired Driving Fatalities (BAC = .08+)		
			Number	Percent	Per 100 Million VMT
2003	Ohio	1,274	370	29	0.34
	US	42,884	13,096	31	0.45
	Best State*			12	0.15
2004	Ohio	1,286	392	30	0.35
	US	42,836	13,099	31	0.44
	Best State*			20	0.25
2005	Ohio	1,321	395	30	0.36
	US	43,510	13,582	31	0.45
	Best State*			12	0.13
2006	Ohio	1,238	386	31	0.35
	US	42,708	13,491	32	0.45
	Best State*			18	0.20
2007	Ohio	1,257	391	31	
	US	41,059	12,998	32	0.43
	Best State*			17	

*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
 2007 National VMT is a Preliminary Estimate and Subject to Change
 2007 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

[Back To The Table of Contents](#)

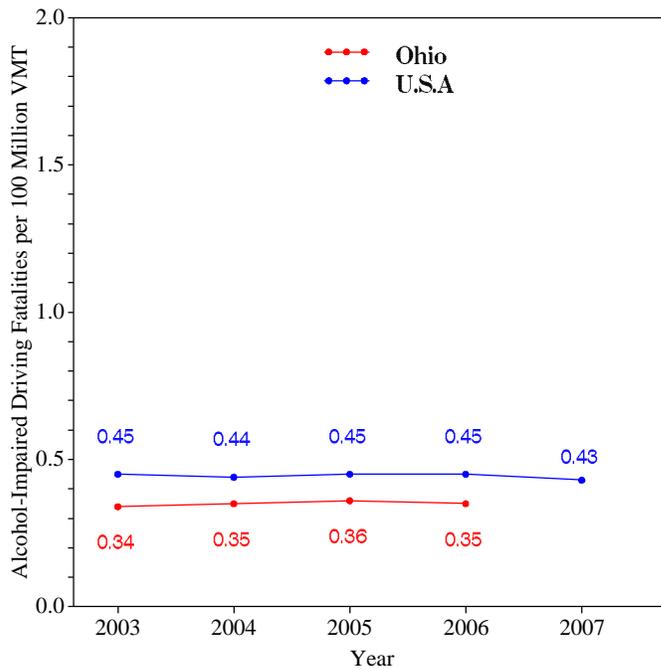


Fatalities per 100 Million VMT



[Back To The Table of Contents](#)

Alcohol-Impaired Driving Fatalities per 100 Million VMT



2007 National VMT is a Preliminary Estimate and Subject to Change
2007 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

[Back To The Table of Contents](#)



**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
2003	Ohio	992	344	35	871	815	94	1,863	1,159	62
	US	31,738	8,196	26	26,779	18,836	70	58,517	27,032	46
	Best State*			76			98			83
2004	Ohio	951	419	44	860	759	88	1,811	1,178	65
	US	31,524	8,215	26	26,871	18,275	68	58,395	26,490	45
	Best State*			80			97			82
2005	Ohio	1,024	359	35	916	806	88	1,940	1,165	60
	US	31,729	7,415	23	27,491	18,773	68	59,220	26,188	44
	Best State*			77			98			84
2006	Ohio	861	277	32	875	783	89	1,736	1,060	61
	US	30,498	7,482	25	27,348	18,911	69	57,846	26,393	46
	Best State*			81			99			85
2007	Ohio	867	290	33	875	785	90	1,742	1,075	62
	US	29,201	6,765	23	26,480	16,991	64	55,681	23,756	43
	Best State*			82			96			84

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

[Back To The Table of Contents](#)



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
2003	Ohio	49	75
	US	55	79
	Best State*	74	95
2004	Ohio	51	74
	US	56	80
	Best State*	82	95
2005	Ohio	54	79
	US	55	82
	Best State*	88	95
2006	Ohio	54	82
	US	55	81
	Best State*	77	96
2007	Ohio	53	82
	US	57	82
	Best State*	81	98

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

**Percent Based Only Where Restraint Use Was Known

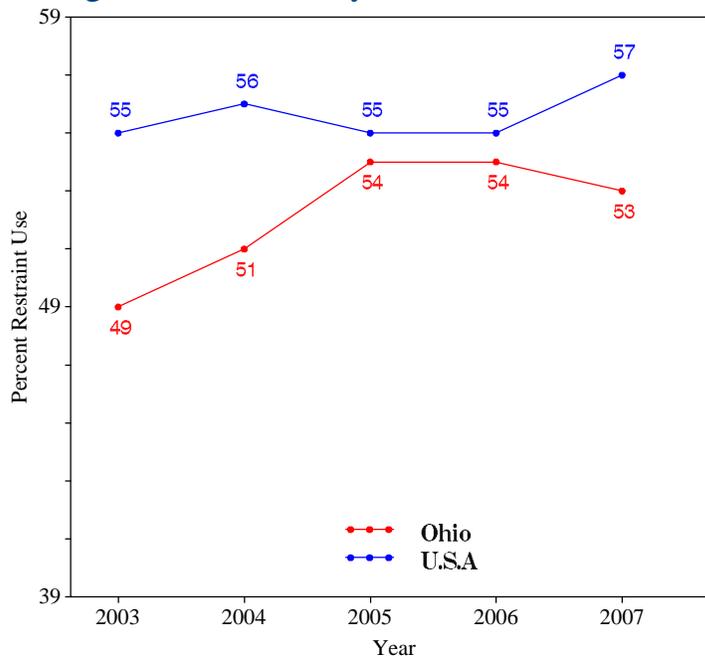
***USA Data: National Occupant Protection Use Survey. Ohio Data: State Survey

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

[Back To The Table of Contents](#)



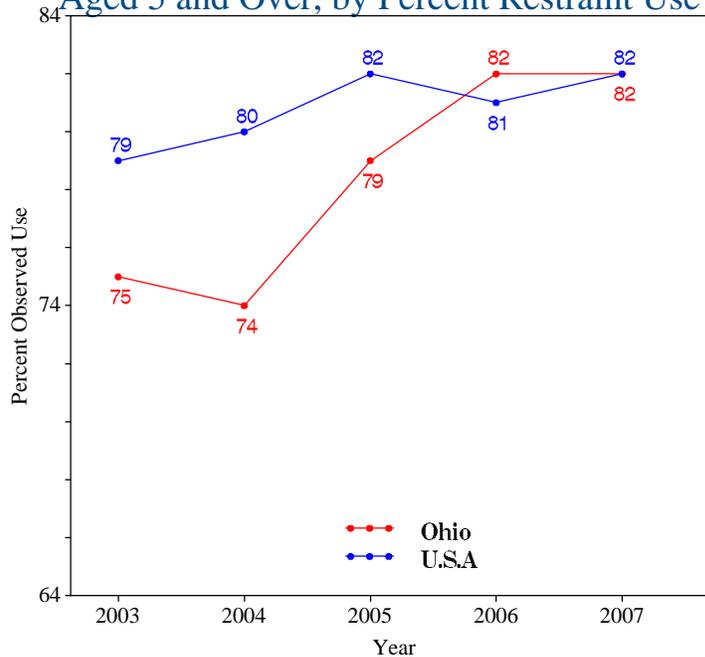
Daytime Front Seat (Outboard Only) Passenger Vehicle Occupant Fatalities, Aged 5 and Over, by Percent Restraint Use*



*Percent Based Only Where Restraint Use Was Known

[Back To The Table of Contents](#)

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

[Back To The Table of Contents](#)



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

Year	Fatalities Aged 5 and Above					Lives Saved Estimates**	
	Total	Restrained	Unrestrained	Unknown Restraint Use	Percent Known Restrained*	Lives Saved at Current Belt Use	Potential Additional Lives Savable at 100% Usage
2003	974	359	589	26	38	383	203
2004	971	382	585	4	40	407	212
2005	998	415	581	2	42	445	191
2006	903	379	501	23	43	415	175
2007	895	354	521	20	40	409	179

*Percent Based Only Where Restraint Use Was Known

**Lives Saved Estimates

[Back To The Table of Contents](#)

Passenger Vehicle Occupant Fatalities Aged Under 5 by Restraint Use and Lives Saved Estimates

Year	Fatalities Aged Under 5					Lives Saved Estimates**	
	Total	Restrained	Unrestrained	Unknown Restraint Use	Percent Known Restrained*	Lives Saved at Current Belt and Child Seat Usage	Potential Additional Lives Savable at 100% Usage
2003	12	10	0	2	100	2	0
2004	8	6	2	0	75	10	1
2005	7	5	2	0	71	7	2
2006	9	7	2	0	78	10	1
2007	13	10	3	0	77	14	

*Percent Based Only Where Restraint Use Was Known

**Lives Saved Estimates

[Back To The Table of Contents](#)



Motorcyclist Fatalities by Helmet Use and Lives Saved Estimates

Year	Fatalities					Lives Saved Estimates**	
	Total	Helmeted	Unhelmeted	Unknown Helmet Use	Percent Known Helmet*	Lives Saved at Current Helmet Use	Potential Additional Lives Savable at 100% Usage
2003	136	33	102	1	24	20	38
2004	134	36	98	0	27	21	37
2005	178	46	132	0	26	27	50
2006	158	40	117	1	25	24	44
2007	190	66	124	0	35	39	46

*Percent Based Only Where Helmet Use Was Known

**Lives Saved Estimates

[Back To The Table of Contents](#)



Fatalities by Person Type

Person Type		2003		2004		2005		2006		2007	
		#	%*	#	%*	#	%*	#	%*	#	%*
Occupants	Passenger Car	692	54	689	54	681	52	632	51	607	48
	Light Truck - Pickup	138	11	135	10	140	11	122	10	120	10
	Light Truck - Utility	106	8	91	7	104	8	82	7	105	8
	Light Truck - Van	52	4	66	5	81	6	76	6	77	6
	Light Truck - Other	0	0	0	0	0	0	1	0	0	0
	Large Truck	11	1	28	2	18	1	27	2	14	1
	Bus	1	0	0	0	0	0	0	0	0	0
	Other/Unknown Occupants	26	2	24	2	9	1	23	2	16	1
	Total Occupants	1,026	81	1,033	80	1,033	78	963	78	939	75
Motorcyclists	Total Motorcyclists	136	11	134	10	178	13	158	13	190	15
Nonoccupants	Pedestrian	99	8	94	7	95	7	96	8	107	9
	Bicyclist and Other Cyclist	8	1	19	1	13	1	17	1	17	1
	Other/Unknown Nonoccupants	5	0	6	0	2	0	4	0	4	0
		Total Nonoccupants	112	9	119	9	110	8	117	9	128
Total	Total	1,274	100	1,286	100	1,321	100	1,238	100	1,257	100

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

[Back To The Table of Contents](#)



Fatalities by Crash Type

Crash Type	2003	2004	2005	2006	2007
Total Fatalities (All Crashes)*	1,274	1,286	1,321	1,238	1,257
- (1) Single Vehicle	625	675	667	664	701
- (2) Involving a Large Truck	151	190	177	158	134
- (3) Involving Speeding	263	272	276	253	277
- (4) Involving a Rollover	306	339	307	297	274
- (5) Involving a Roadway Departure	754	791	795	763	800
- (6) Involving an Intersection (or Intersection Related)	281	315	358	317	290

(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

[Back To The Table of Contents](#)



Motorcyclist Fatalities by Age

Year	Age						Total
	<20	20-29	30-39	40-49	50-59	>59	
2003	12	34	31	31	23	5	136
2004	7	36	29	45	10	7	134
2005	9	40	39	42	36	12	178
2006	4	43	29	39	35	8	158
2007	9	47	37	37	37	23	190

[Back To The Table of Contents](#)

Motorcyclist Fatalities Per 100,000 Registered Motorcycles

Year	Motorcyclist Fatalities	Total Motorcycle Registrations*	Motorcyclist Fatalities Per 100,000 Motorcycle Registrations
2003	136	286,378	47.49
2004	134	298,652	44.87
2005	178	308,811	57.64
2006	158	332,275	47.55
2007	190		

*Data Source: FHWA

*2007 Motorcycle Registrations are Not Yet Available

[Back To The Table of Contents](#)



Fatalities by Person Type and Race/Hispanic Origin

Person Type by Race/Hispanic Origin		2003	2004	2005	2006
Occupants (All Vehicle Types)	Hispanic	4	9	13	12
	White Non-Hispanic	1,022	1,021	922	976
	Black, Non-Hispanic	108	106	81	102
	American Indian, Non-Hispanic/Unknown	2	3	0	0
	Asian, Non-Hispanic/Unknown	0	0	1	3
	Pacific Islander, Non-Hispanic/Unknown	0	0	2	0
	Multiple Races, Non-Hispanic/Unknown	0	1	6	1
	All Other Non-Hispanic or Race	9	8	8	14
	Unknown Race and Unknown Hispanic	17	19	178	13
	Total	1,162	1,167	1,211	1,121
Non-Occupants (Pedestrians, Pedalcyclists and Other/Unknown NonOccupants)					
	Hispanic	1	0	2	2
	White Non-Hispanic	91	94	77	87
	Black, Non-Hispanic	18	18	20	24
	American Indian, Non-Hispanic/Unknown	0	0	1	0
	Asian, Non-Hispanic/Unknown	0	0	0	1
	Pacific Islander, Non-Hispanic/Unknown	0	0	0	0
	Multiple Races, Non-Hispanic/Unknown	0	0	0	0
	All Other Non-Hispanic or Race	1	3	1	1
	Unknown Race and Unknown Hispanic	1	4	9	2
Total	112	119	110	117	
Total	1,274	1,286	1,321	1,238	

2007 Race/Hispanic Origin Data is Not Yet Complete

[Back To The Table of Contents](#)



5 Year Trend For The Top 10 Counties of 2007 - Fatalities

Counties by 2007 Ranking		Fatalities					Percent of Total				
		2003	2004	2005	2006	2007	2003	2004	2005	2006	2007
1	Franklin County	81	80	83	68	80	6	6	6	5	6
2	Cuyahoga County	69	75	59	68	67	5	6	4	5	5
3	Lucas County	33	35	56	41	60	3	3	4	3	5
4	Hamilton County	69	67	59	62	59	5	5	4	5	5
5	Montgomery County	49	52	59	48	52	4	4	4	4	4
6	Summit County	40	44	41	37	46	3	3	3	3	4
7	Stark County	39	44	39	38	35	3	3	3	3	3
8	Butler County	32	32	37	40	27	3	2	3	3	2
9	Wood County	13	18	19	18	27	1	1	1	1	2
10	Lorain County	24	18	18	29	26	2	1	1	2	2
Sub Total 1.*	Top Ten Counties	464	491	491	461	479	36	38	37	37	38
Sub Total 2.**	All Other Counties	810	795	830	777	778	64	62	63	63	62
Total	All Counties	1,274	1,286	1,321	1,238	1,257	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

[Back To The Table of Contents](#)



5 Year Trend For The Top 10 Counties of 2007 - Fatalities Year to Year Percent Change

Counties by 2007 Ranking		Fatalities					Percent Change From Previous Year			
		2003	2004	2005	2006	2007	2004	2005	2006	2007
1	Franklin County	81	80	83	68	80	-1	4	-18	18
2	Cuyahoga County	69	75	59	68	67	9	-21	15	-1
3	Lucas County	33	35	56	41	60	6	60	-27	46
4	Hamilton County	69	67	59	62	59	-3	-12	5	-5
5	Montgomery County	49	52	59	48	52	6	13	-19	8
6	Summit County	40	44	41	37	46	10	-7	-10	24
7	Stark County	39	44	39	38	35	13	-11	-3	-8
8	Butler County	32	32	37	40	27	0	16	8	-33
9	Wood County	13	18	19	18	27	38	6	-5	50
10	Lorain County	24	18	18	29	26	-25	0	61	-10
Sub Total 1.*	Top Ten Counties	464	491	491	461	479	6	0	-6	4
Sub Total 2.**	All Other Counties	810	795	830	777	778	-2	4	-6	0
Total	All Counties	1,274	1,286	1,321	1,238	1,257	1	3	-6	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

[Back To The Table of Contents](#)



5 Year Trend For The Top 10 Counties of 2007 - Fatality Rates

Median Rate for all U.S. Counties: 21.77

Counties by 2007 Ranking		Fatalities Per 100,000 Population				
		2003	2004	2005	2006	2007
1	Paulding County	50.89	35.90	36.04	20.75	57.35
2	Wyandot County	43.97	39.44	13.22	22.17	48.95
3	Fayette County	14.21	7.12	24.79	24.79	45.92
4	Henry County	34.29	27.40	37.64	27.35	38.02
5	Perry County	11.53	37.38	22.97	28.71	31.57
6	Vinton County	30.35	75.72	37.76	29.93	29.91
7	Brown County	11.49	18.33	20.59	25.13	29.58
8	Morrow County	23.96	20.68	29.37	35.07	28.97
9	Seneca County	20.77	19.11	17.46	21.10	26.45
10	Logan County	19.39	27.98	19.43	15.18	25.93
	Sub Rate 1.* Top Ten Counties	32.74	36.30	35.73	34.65	33.78
	Sub Rate 2.** All Other Counties	10.43	10.52	11.00	10.11	10.29
	Total Rate All Counties	11.14	11.23	11.53	10.80	10.96

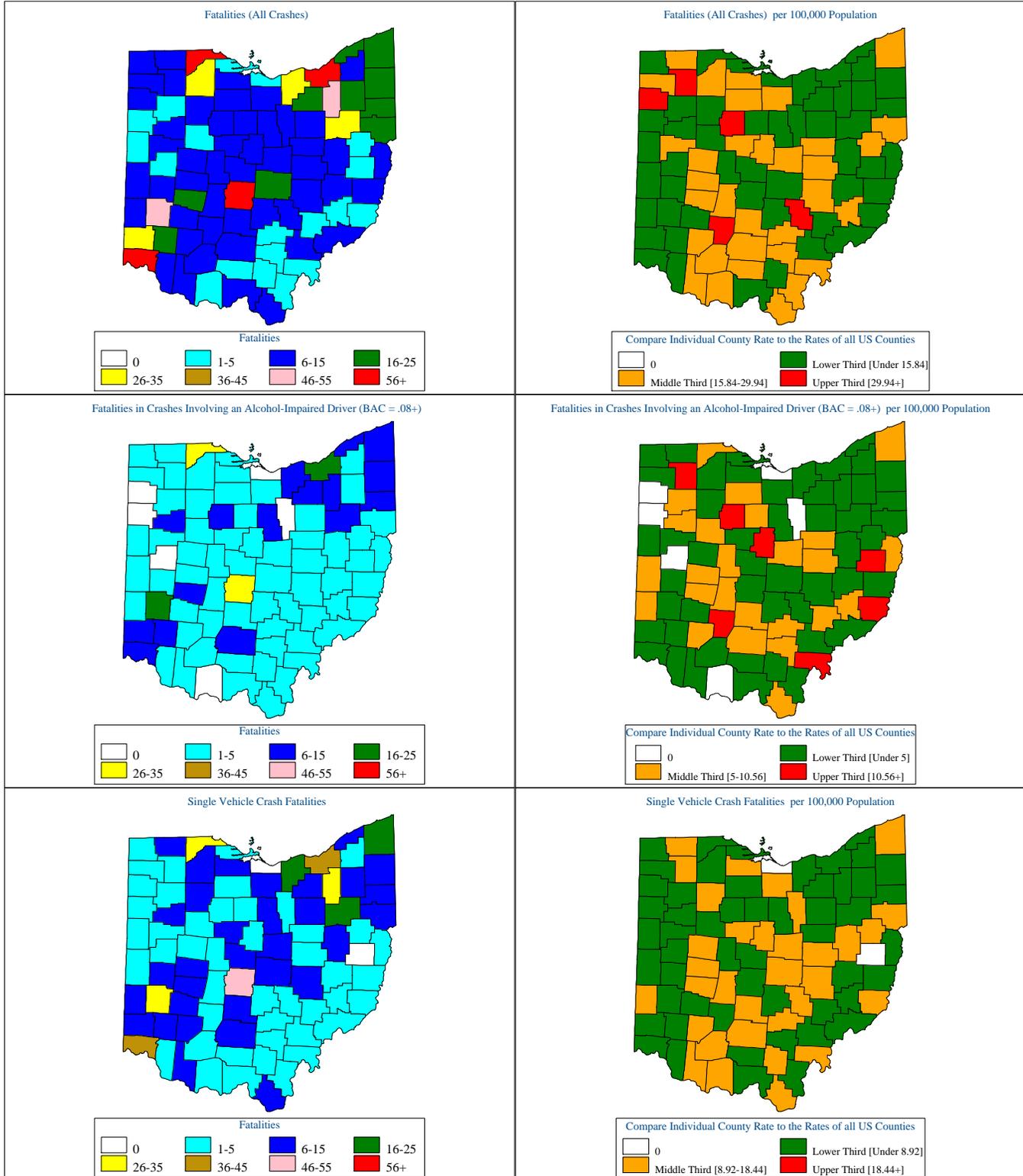
*This Sub Rate is the Rate for the Top Ten Counties

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

[Back To The Table of Contents](#)



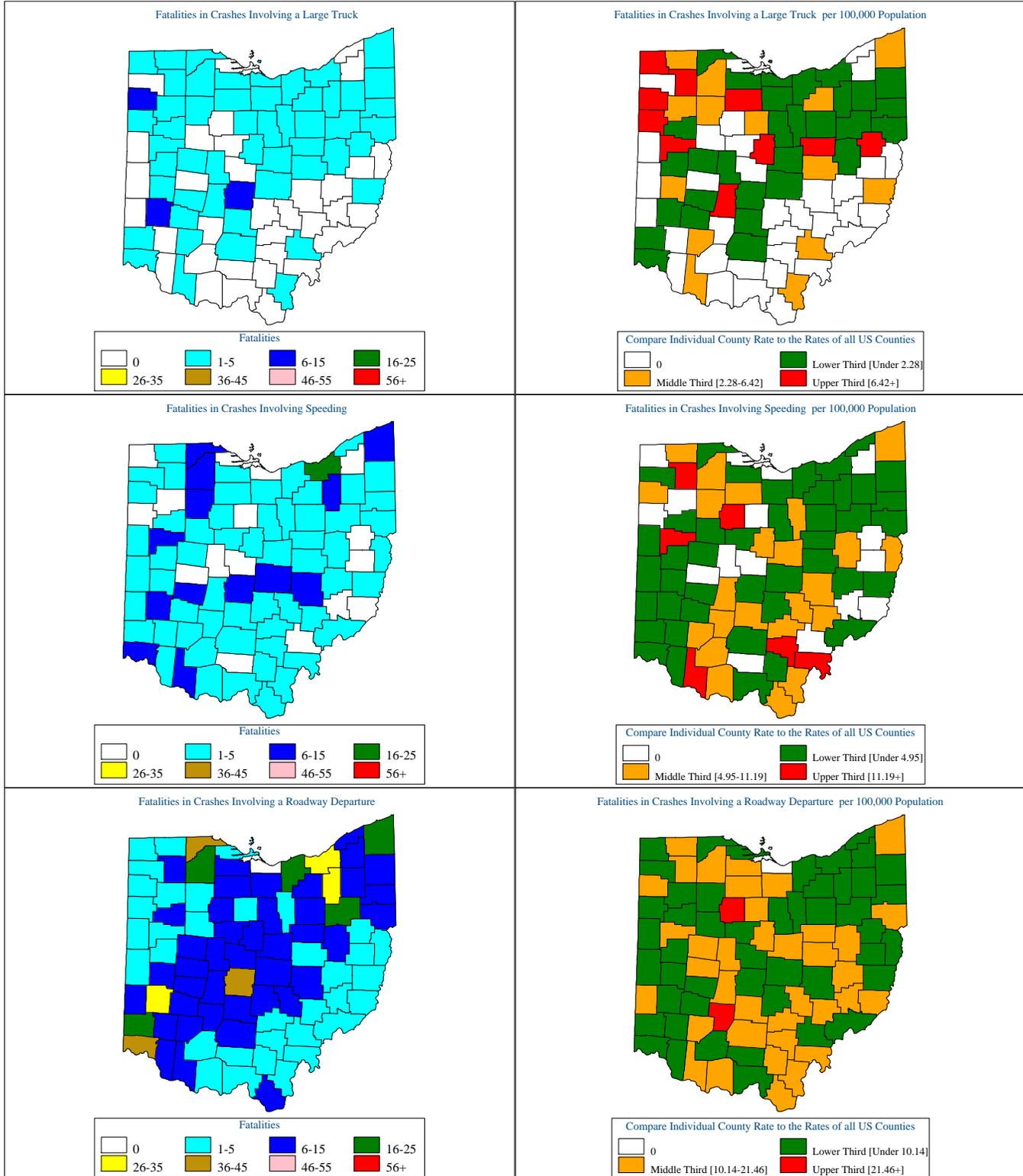
Ohio Motor Vehicle Crash Fatality Maps for 2007



[Back To The Table of Contents](#)



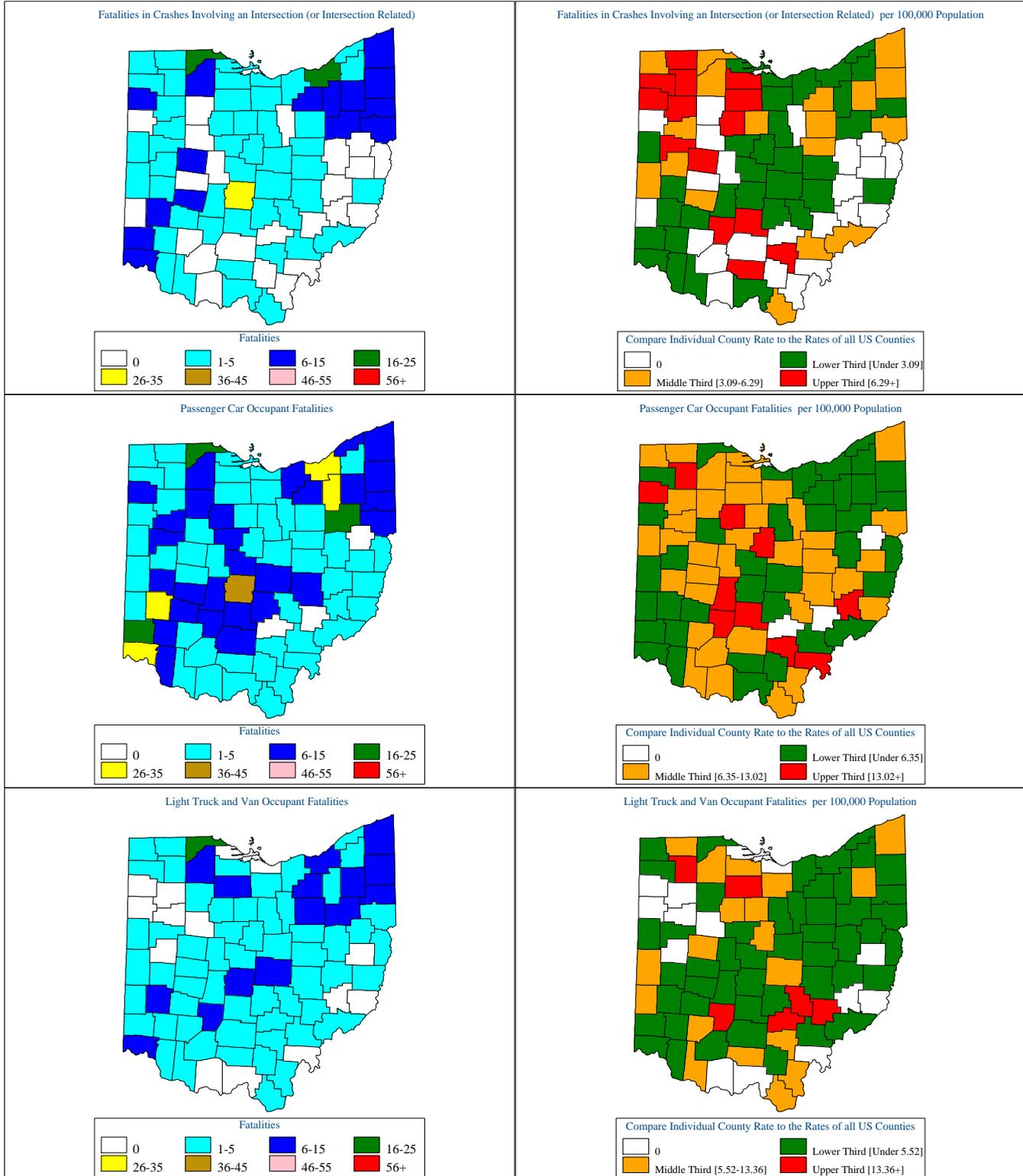
Ohio Motor Vehicle Crash Fatality Maps for 2007



[Back To The Table of Contents](#)



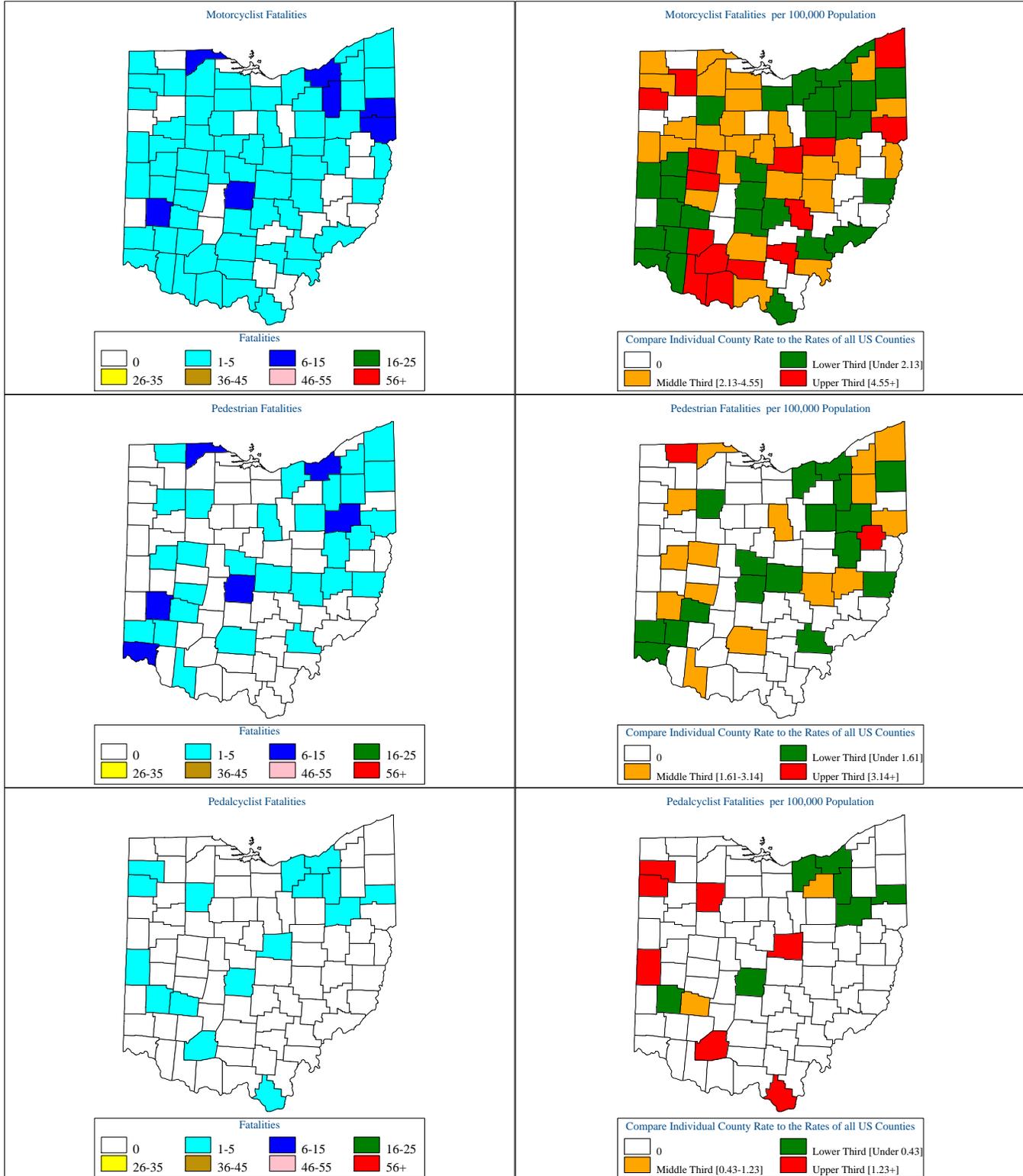
Ohio Motor Vehicle Crash Fatality Maps for 2007



[Back To The Table of Contents](#)



Ohio Motor Vehicle Crash Fatality Maps for 2007



[Back To The Table of Contents](#)