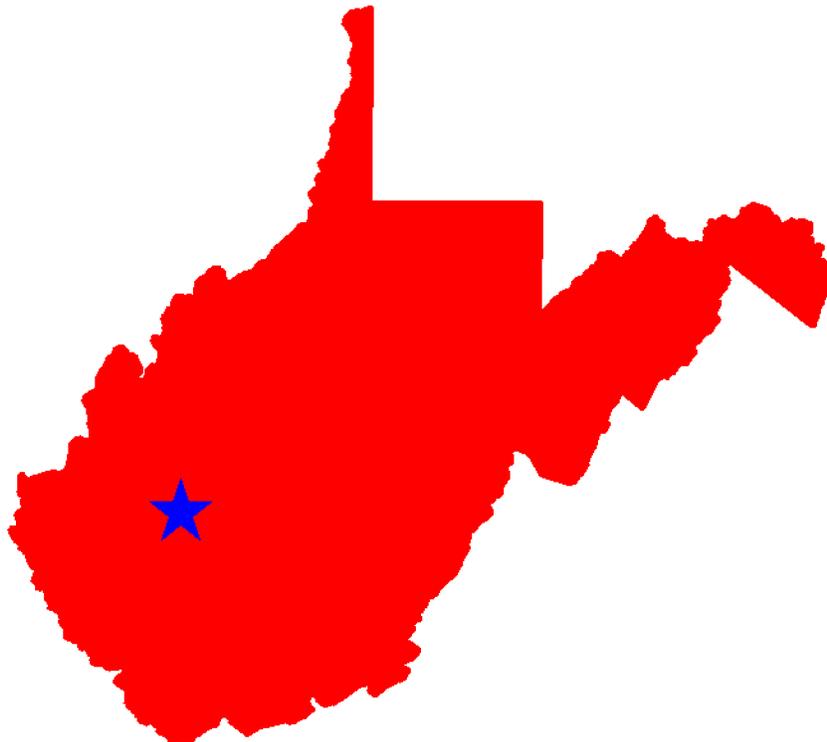




## Traffic Safety Facts West Virginia 2003-2007



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 West Virginia 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: West Virginia , U.S. and Best State
5. Alcohol-Related Fatalities: West Virginia , U.S. and Best State (Old Definition)
6. Alcohol-Impaired Driving Fatalities: West Virginia , U.S. and Best State (New Definition)
7. Fatalities Per 100 Million VMT: West Virginia , U.S.
7. Alcohol-Impaired Driving Fatalities Per 100 Million VMT: West Virginia , U.S.
8. Blood Alcohol Concentration (BAC) Reporting Rates For Drivers/Motorcycle Rider (Operators) Involved in Fatal Crashes: West Virginia , U.S. and Best State
9. Front Seat Passenger Vehicle Occupants, Aged 5 and Over, by Restraint Use: Fatalities and Observed West Virginia , U.S. and Best State
10. Front Seat Passenger Vehicle Occupant Fatalities, Aged 5 and Over, by Percent Restraint Use: West Virginia , U.S.
10. Front Seat Passenger Vehicle Occupants Observed, Aged 5 and Over, by Percent Restraint Use: West Virginia , 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 West Virginia \*

Core Outcome Measures		Year				
		2003	2004	2005	2006	2007
<b>Traffic Fatalities</b>	<b>Total</b>	394	410	374	410	431
	<b>Rural</b>	320	355	300	356	362
	<b>Urban</b>	74	55	74	54	69
	<b>Unknown</b>	0	0	0	0	0
<b>Fatalities Per 100 Million Vehicle Miles Driven**</b>	<b>Total</b>	1.96	2.02	1.82	1.96	
	<b>Rural</b>	2.18	2.40	2.29	2.89	
	<b>Urban</b>	1.37	1.00	1.00	0.63	
<b>Passenger Vehicle Occupant Fatalities (All Seat Positions)</b>	<b>Total</b>	313	324	287	307	323
	<b>Restrained</b>	116	122	104	94	113
	<b>Unrestrained</b>	178	189	171	162	158
	<b>Unknown</b>	19	13	12	51	52
<b>Alcohol-Impaired Driving Fatalities (BAC=.08+)**</b>		118	108	110	105	142
<b>Speeding-Related Fatalities</b>		112	119	82	73	76
<b>Motorcyclist Fatalities</b>	<b>Total</b>	30	27	34	39	40
	<b>Helmeted</b>	24	25	30	29	32
	<b>Unhelmeted</b>	6	2	4	9	6
	<b>Unknown</b>	0	0	0	1	2
<b>Drivers Involved in Fatal Crashes</b>	<b>Total</b>	542	561	497	546	544
	<b>Aged Under 15</b>	4	2	4	1	1
	<b>Aged 15-20</b>	62	64	50	68	59
	<b>Aged Under 21</b>	66	66	54	69	60
	<b>Aged 21 and Over</b>	476	491	441	474	482
	<b>Unknown Age</b>	0	4	2	3	2
<b>Pedestrian Fatalities</b>		22	26	23	21	27

\*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)

\*\*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: West Virginia , 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	West Virginia	394	20,082	1.96	1,803,223	21.85
	US	42,884	2,890,450	1.48	290,447,644	14.76
	Best State*			0.83		7.18
2004	West Virginia	410	20,302	2.02	1,804,618	22.72
	US	42,836	2,964,788	1.44	293,191,511	14.61
	Best State*			0.87		7.40
2005	West Virginia	374	20,523	1.82	1,805,626	20.71
	US	43,510	2,989,430	1.46	295,895,897	14.70
	Best State*			0.80		6.86
2006	West Virginia	410	20,885	1.96	1,808,699	22.67
	US	42,708	3,014,116	1.42	298,754,819	14.30
	Best State*			0.78		6.32
2007	West Virginia	431			1,812,035	23.79
	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\*\*:  
 West Virginia , 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	West Virginia	394	148	38	126	32	0.63
	US	42,884	17,105	40	14,678	34	0.51
	Best State*			15		13	0.16
2004	West Virginia	410	142	35	119	29	0.59
	US	42,836	16,919	39	14,593	34	0.49
	Best State*			25		21	0.27
2005	West Virginia	374	129	34	117	31	0.57
	US	43,510	17,590	40	15,102	35	0.51
	Best State*			14		12	0.14
2006	West Virginia	410	136	33	110	27	0.53
	US	42,708	17,738	42	15,144	35	0.50
	Best State*			24		20	0.22
2007	West Virginia	431	177	41	153	35	
	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\*\*:  
West Virginia , 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	West Virginia	394	118	30	0.59
	US	42,884	13,096	31	0.45
	Best State*			12	0.15
2004	West Virginia	410	108	26	0.53
	US	42,836	13,099	31	0.44
	Best State*			20	0.25
2005	West Virginia	374	110	29	0.54
	US	43,510	13,582	31	0.45
	Best State*			12	0.13
2006	West Virginia	410	105	26	0.50
	US	42,708	13,491	32	0.45
	Best State*			18	0.20
2007	West Virginia	431	142	33	
	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

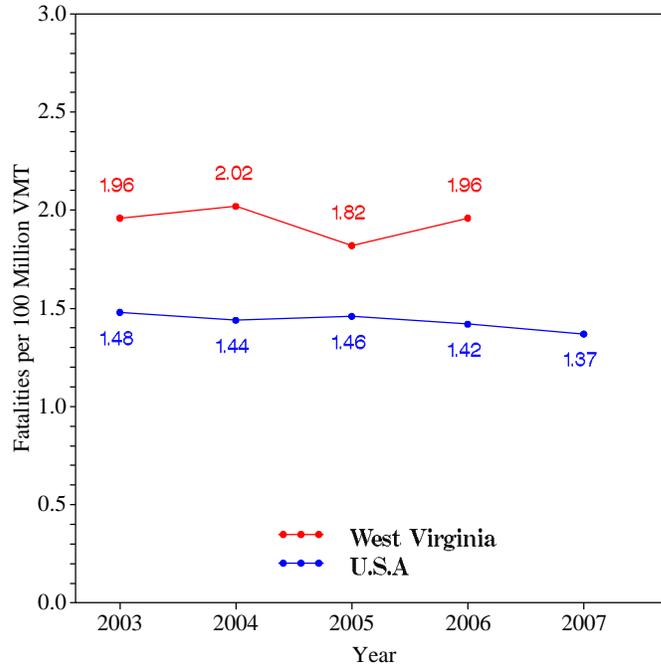
2007 National VMT is a Preliminary Estimate and Subject to Change

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

[Back To The Table of Contents](#)

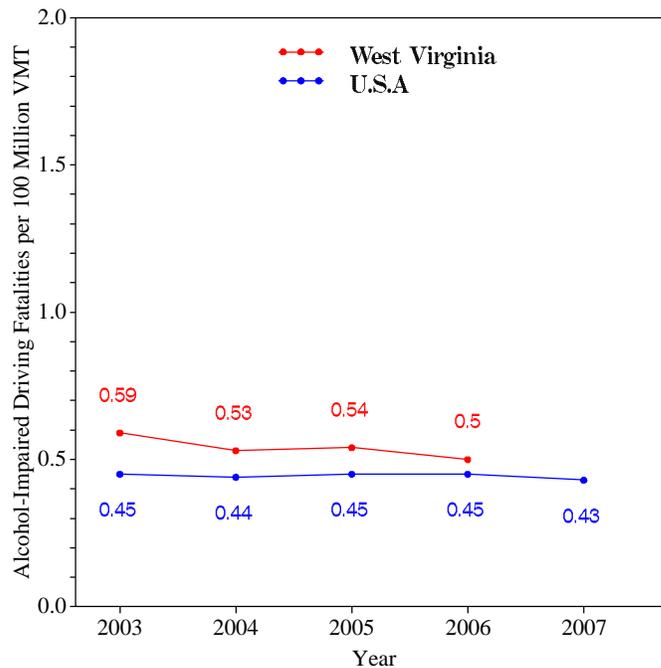


### Fatalities per 100 Million VMT



[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:  
West Virginia , 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	West Virginia	263	55	21	279	249	89	542	304	56
	US	31,738	8,196	26	26,779	18,836	70	58,517	27,032	46
	Best State*			76			98			83
2004	West Virginia	281	31	11	280	246	88	561	277	49
	US	31,524	8,215	26	26,871	18,275	68	58,395	26,490	45
	Best State*			80			97			82
2005	West Virginia	235	32	14	262	216	82	497	248	50
	US	31,729	7,415	23	27,491	18,773	68	59,220	26,188	44
	Best State*			77			98			84
2006	West Virginia	257	43	17	289	249	86	546	292	53
	US	30,498	7,482	25	27,348	18,911	69	57,846	26,393	46
	Best State*			81			99			85
2007	West Virginia	231	17	7	313	251	80	544	268	49
	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 West Virginia , U.S. and Best State

Table with 4 columns: Year, State, Fatalities - Restrained\*\*, Observed - Restrained\*\*\*. Rows include years 2003-2007 and states West Virginia, US, and Best State\*.

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

\*\*Percent Based Only Where Restraint Use Was Known

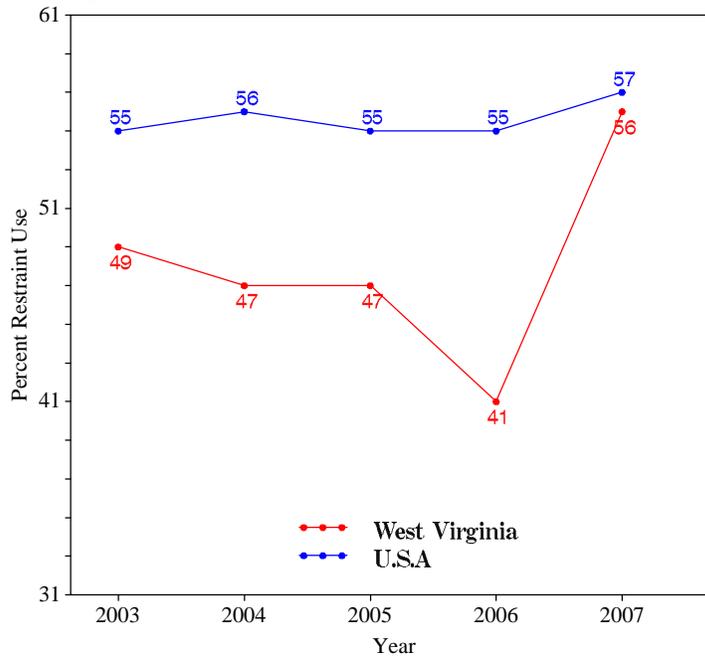
\*\*\*USA Data: National Occupant Protection Use Survey. West Virginia Data: State Survey

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



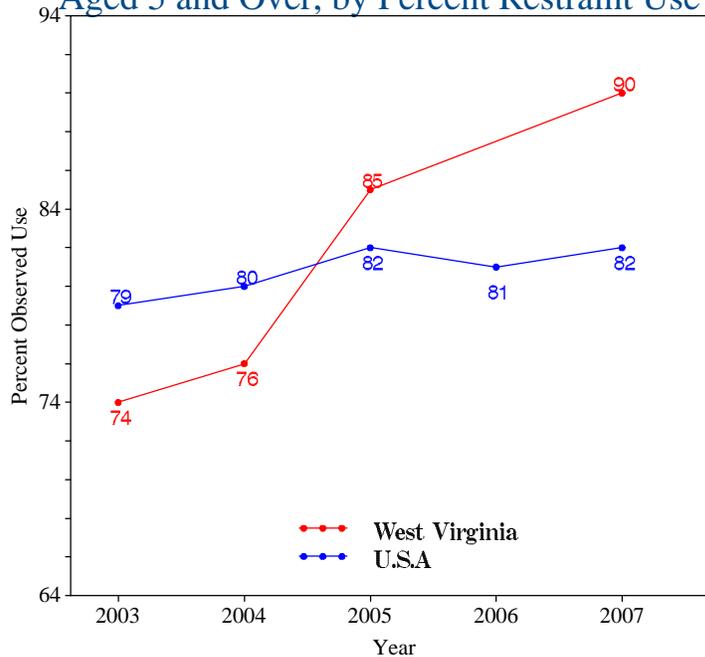
### Daytime Front Seat (Outboard Only) Passenger Vehicle Occupant Fatalities, Aged 5 and Over, by Percent Restraint Use\*



\*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. West Virginia 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	310	114	177	19	39	134	70
2004	320	119	188	13	39	151	69
2005	285	102	171	12	37	123	44
2006	300	90	160	50	36	124	39
2007	319	110	157	52	41	163	39

\*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	3	2	1	0	67	0	1
2004	3	3	0	0	100	4	0
2005	2	2	0	0	100	3	0
2006	4	3	1	0	75	3	1
2007	3	3	0	0	100	6	

\*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	30	24	6	0	80	14	2
2004	27	25	2	0	93	15	1
2005	34	30	4	0	88	18	1
2006	39	29	9	1	76	17	4
2007	40	32	6	2	84	20	2

\*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	
		#	%*	#	%*	#	%*	#	%*	#	%*
<b>Occupants</b>	<b>Passenger Car</b>	193	49	184	45	158	42	176	43	173	40
	<b>Light Truck - Pickup</b>	67	17	76	19	74	20	69	17	73	17
	<b>Light Truck - Utility</b>	37	9	49	12	36	10	51	12	55	13
	<b>Light Truck - Van</b>	16	4	15	4	19	5	11	3	22	5
	<b>Large Truck</b>	7	2	11	3	9	2	9	2	8	2
	<b>Other/Unknown Occupants</b>	21	5	18	4	19	5	31	8	32	7
	<b><i>Total Occupants</i></b>	341	87	353	86	315	84	347	85	363	84
<b>Motorcyclists</b>	<b><i>Total Motorcyclists</i></b>	30	8	27	7	34	9	39	10	40	9
<b>Nonoccupants</b>	<b>Pedestrian</b>	22	6	26	6	23	6	21	5	27	6
	<b>Bicyclist and Other Cyclist</b>	1	0	4	1	2	1	1	0	1	0
	<b>Other/Unknown Nonoccupants</b>	0	0	0	0	0	0	2	0	0	0
	<b><i>Total Nonoccupants</i></b>	23	6	30	7	25	7	24	6	28	6
<b>Total</b>	<b><i>Total</i></b>	394	100	410	100	374	100	410	100	431	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
<b>Total Fatalities (All Crashes)*</b>	394	410	374	410	431
<b>- (1) Single Vehicle</b>	220	243	218	230	273
<b>- (2) Involving a Large Truck</b>	57	64	55	48	48
<b>- (3) Involving Speeding</b>	112	119	82	73	76
<b>- (4) Involving a Rollover</b>	113	136	131	124	154
<b>- (5) Involving a Roadway Departure</b>	270	275	265	305	309
<b>- (6) Involving an Intersection (or Intersection Related)</b>	45	50	47	44	38

(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	1	7	6	7	8	1	30
2004	4	6	5	5	5	2	27
2005	2	7	6	9	6	4	34
2006	3	6	10	6	9	5	39
2007	4	12	7	3	9	5	40

[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	30	19,291	155.5
2004	27	19,534	138.2
2005	34	17,702	192.1
2006	39	40,741	95.73
2007	40		

\*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
<b>Occupants (All Vehicle Types)</b>	<b>Hispanic</b>	1	3	4	4
	<b>White Non-Hispanic</b>	355	365	338	348
	<b>Black, Non-Hispanic</b>	15	10	4	11
	<b>Asian, Non-Hispanic/Unknown</b>	0	0	3	0
	<b>All Other Non-Hispanic or Race</b>	0	2	0	3
	<b>Unknown Race and Unknown Hispanic</b>	0	0	0	20
	<b>Total</b>	371	380	349	386
<b>Non-Occupants (Pedestrians, Pedalcyclists and Other/Unknown NonOccupants)</b>					
	<b>Hispanic</b>	1	0	0	1
	<b>White Non-Hispanic</b>	20	29	24	20
	<b>Black, Non-Hispanic</b>	2	1	1	0
	<b>Asian, Non-Hispanic/Unknown</b>	0	0	0	0
	<b>All Other Non-Hispanic or Race</b>	0	0	0	0
	<b>Unknown Race and Unknown Hispanic</b>	0	0	0	3
<b>Total</b>	23	30	25	24	
<b>Total</b>	394	410	374	410	

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	<b>Kanawha County</b>	42	28	31	35	43	11	7	8	9	10
2	<b>Raleigh County</b>	15	24	15	16	25	4	6	4	4	6
3	<b>Berkeley County</b>	20	20	11	23	22	5	5	3	6	5
4	<b>Cabell County</b>	14	17	8	15	21	4	4	2	4	5
5	<b>Mercer County</b>	12	21	22	19	20	3	5	6	5	5
6	<b>Monongalia County</b>	11	16	13	11	17	3	4	3	3	4
7	<b>Wayne County</b>	10	15	11	10	17	3	4	3	2	4
8	<b>Fayette County</b>	10	13	14	10	14	3	3	4	2	3
9	<b>Boone County</b>	9	5	5	15	13	2	1	1	4	3
10	<b>Jackson County</b>	13	7	13	8	13	3	2	3	2	3
<b>Sub Total 1.*</b>	<b>Top Ten Counties</b>	174	188	164	175	205	44	46	44	43	48
<b>Sub Total 2.**</b>	<b>All Other Counties</b>	220	222	210	235	226	56	54	56	57	52
<b>Total</b>	<b>All Counties</b>	394	410	374	410	431	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	Kanawha County	42	28	31	35	43	-33	11	13	23
2	Raleigh County	15	24	15	16	25	60	-38	7	56
3	Berkeley County	20	20	11	23	22	0	-45	109	-4
4	Cabell County	14	17	8	15	21	21	-53	88	40
5	Mercer County	12	21	22	19	20	75	5	-14	5
6	Monongalia County	11	16	13	11	17	45	-19	-15	55
7	Wayne County	10	15	11	10	17	50	-27	-9	70
8	Fayette County	10	13	14	10	14	30	8	-29	40
9	Boone County	9	5	5	15	13	-44	0	200	-13
10	Jackson County	13	7	13	8	13	-46	86	-38	63
<b>Sub Total 1.*</b> <i>Top Ten Counties</i>		174	188	164	175	205	8	-13	7	17
<b>Sub Total 2.**</b> <i>All Other Counties</i>		220	222	210	235	226	1	-5	12	-4
<b>Total</b> <i>All Counties</i>		394	410	374	410	431	4	-9	10	5

\*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	Pendleton County	0.00	37.90	12.84	51.53	91.50
2	Ritchie County	29.05	0.00	19.36	38.48	67.50
3	Pocahontas County	56.01	33.56	22.74	22.99	58.34
4	Boone County	35.21	19.62	19.73	59.63	51.59
5	McDowell County	31.93	20.54	25.22	21.38	47.84
6	Braxton County	6.83	54.42	40.87	75.31	47.82
7	Lewis County	52.68	29.30	40.85	17.52	46.66
8	Jackson County	46.38	24.79	46.32	28.42	46.06
9	Summers County	50.67	29.35	14.83	37.48	45.45
10	Mingo County	51.28	29.66	52.26	33.73	44.85
<i>Sub Rate 1.*</i>	<i>Top Ten Counties</i>	44.70	52.52	42.39	53.92	50.93
<i>Sub Rate 2.**</i>	<i>All Other Counties</i>	19.05	20.08	17.49	20.14	20.89
<i>Total Rate</i>	<i>All Counties</i>	21.85	22.72	20.71	22.67	23.79

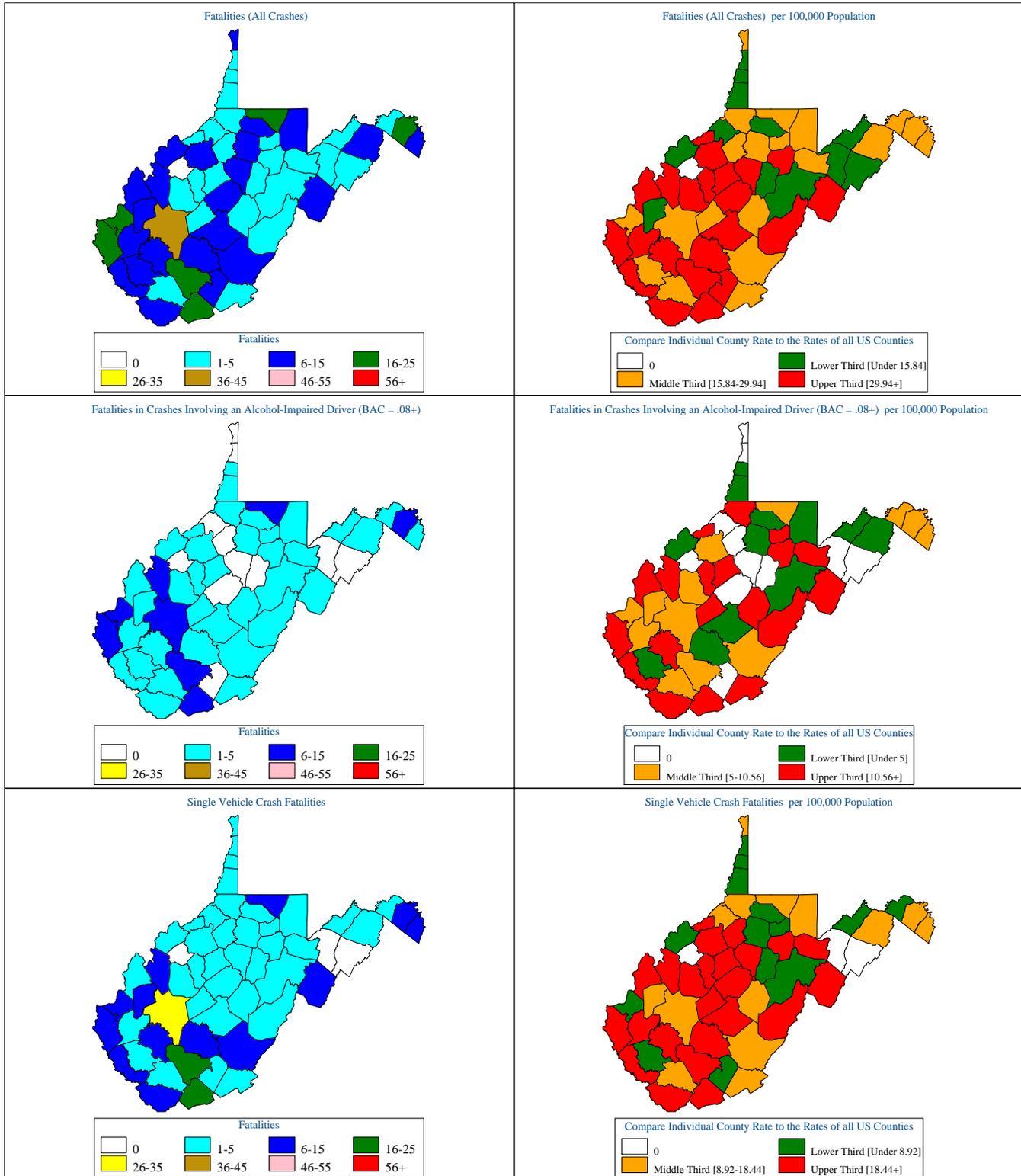
\*This Sub Rate is the Rate for the Top Ten Counties

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

[Back To The Table of Contents](#)



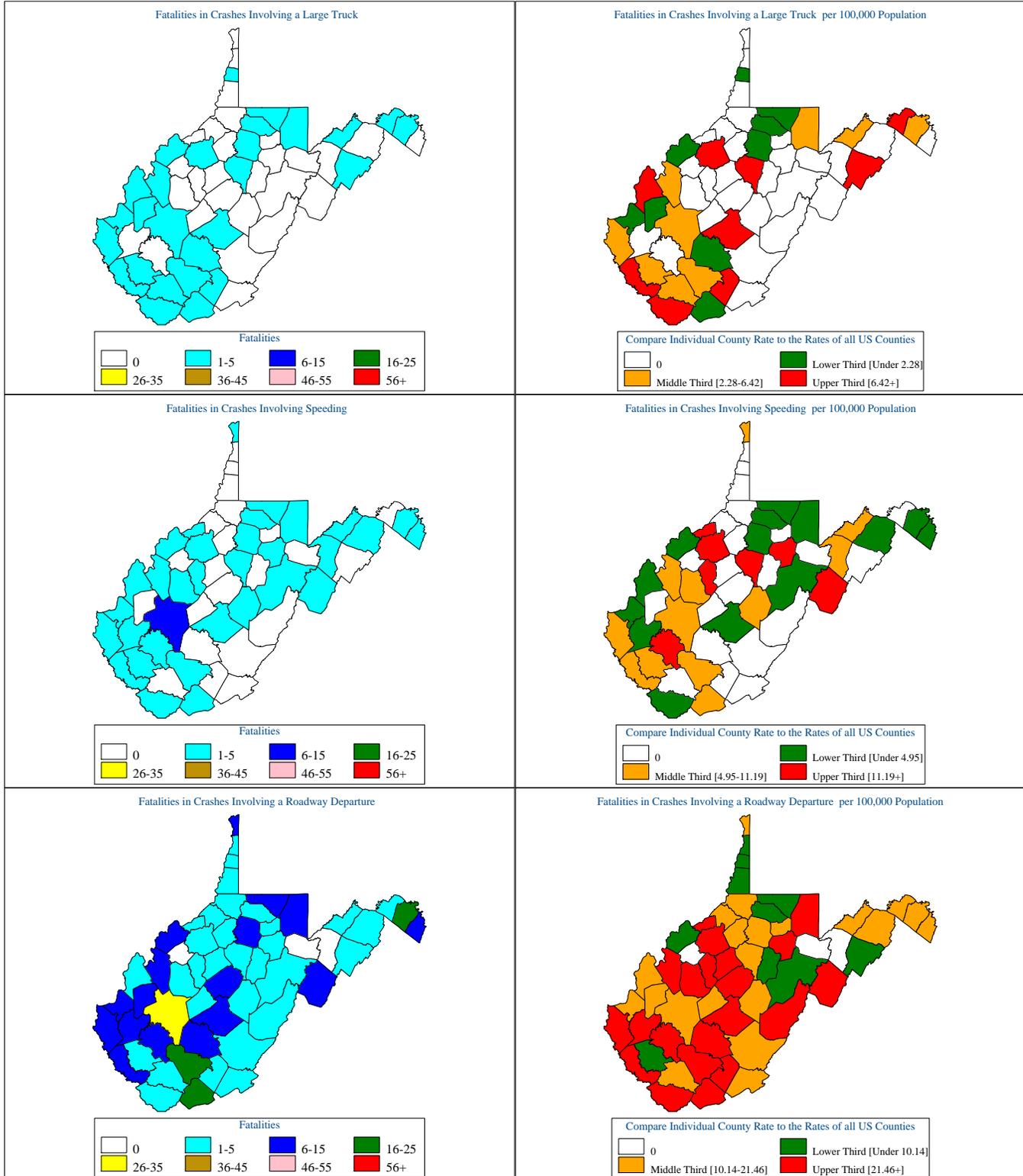
### West Virginia Motor Vehicle Crash Fatality Maps for 2007



[Back To The Table of Contents](#)



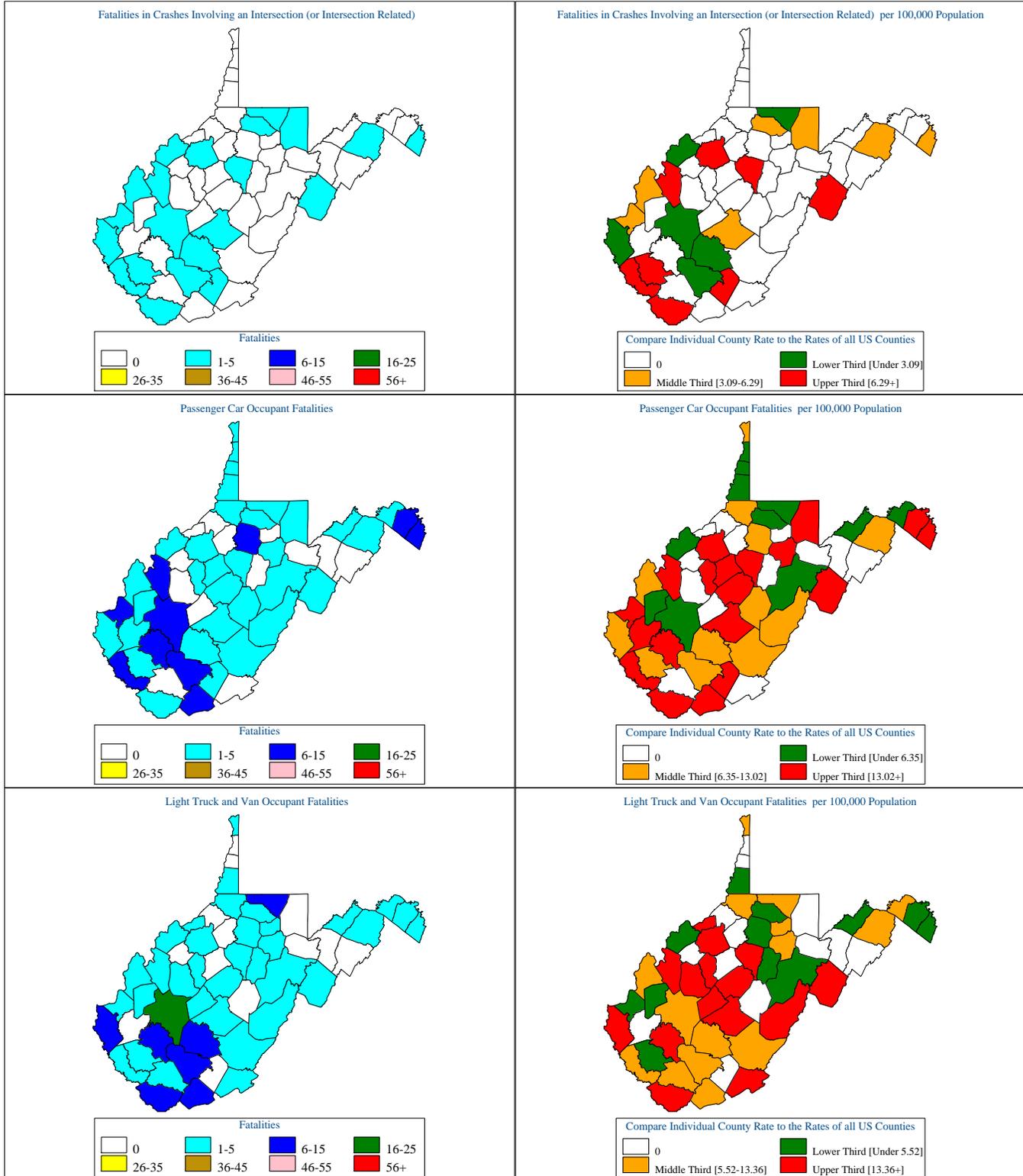
### West Virginia Motor Vehicle Crash Fatality Maps for 2007



[Back To The Table of Contents](#)



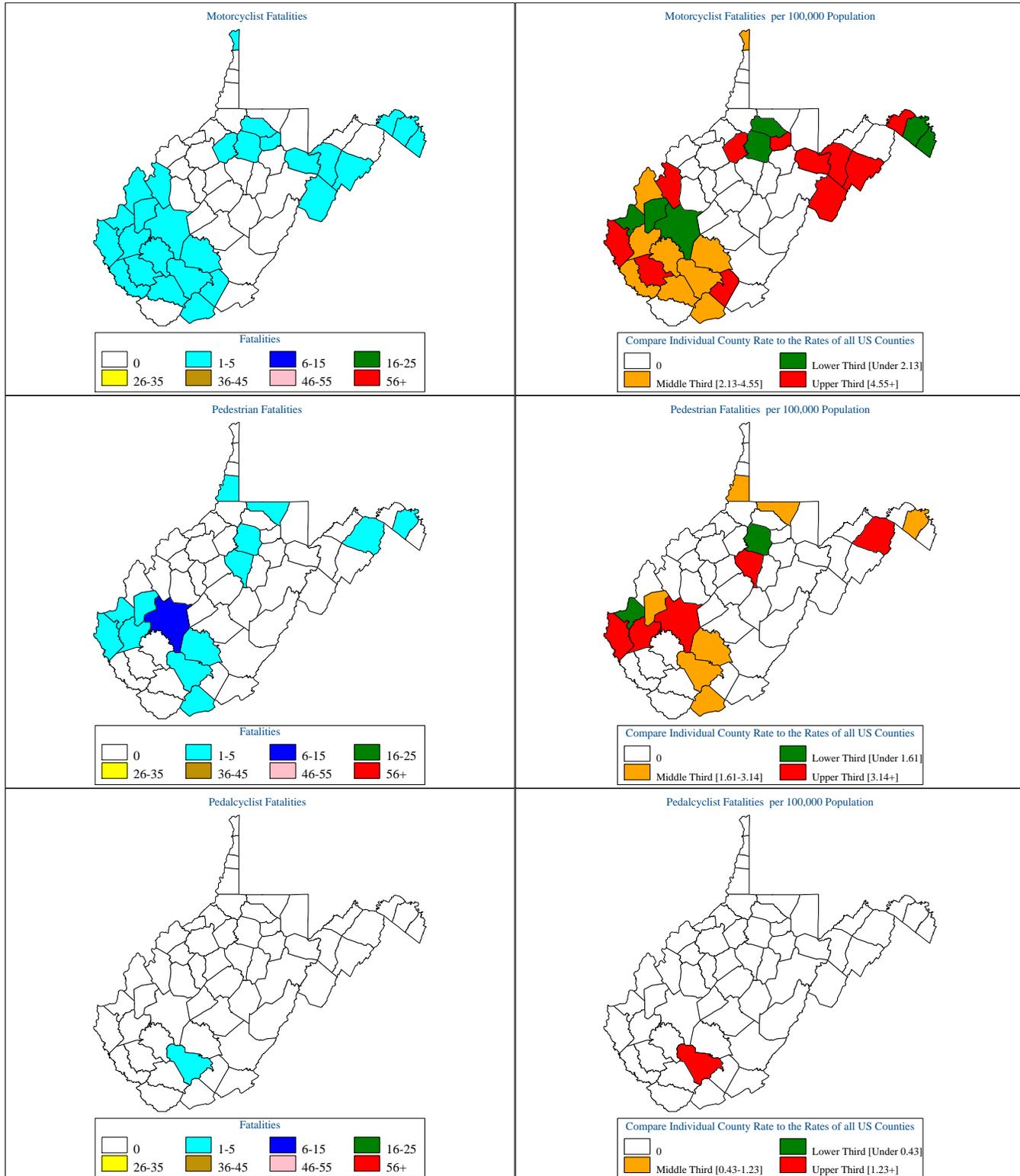
### West Virginia Motor Vehicle Crash Fatality Maps for 2007



[Back To The Table of Contents](#)



### West Virginia Motor Vehicle Crash Fatality Maps for 2007



[Back To The Table of Contents](#)