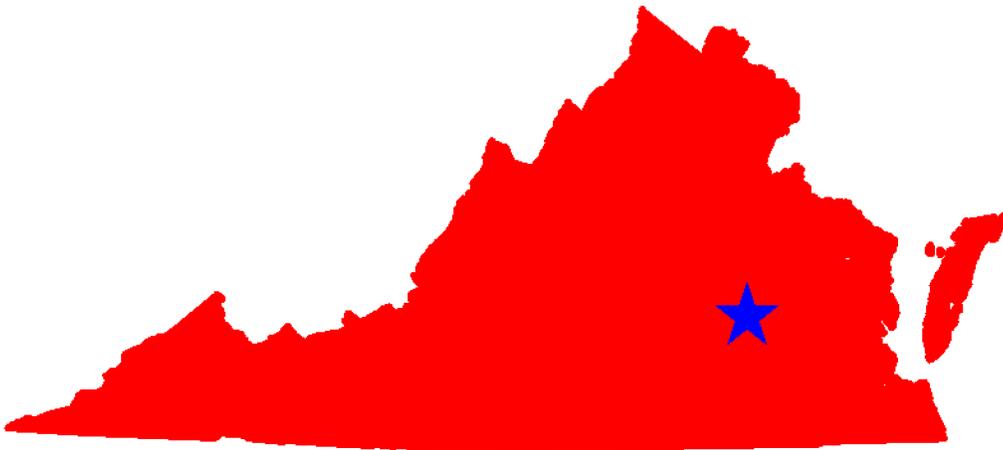




Traffic Safety Facts Virginia 2004-2008



This Report Contains Data From the Following Sources:

- Fatality Data - NCSA Fatality Analysis Reporting System (FARS): 2004-2007 Final File and 2008 Annual Report File (ARF)
- Observed Safety Belt Data - NCSA National Occupant Protection Use Survey (NOPUS) and the 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: Virginia , U.S. and Best State
5. Alcohol-Related Fatalities: Virginia , U.S. and Best State (Old Definition)
6. Alcohol-Impaired Driving Fatalities: Virginia , U.S. and Best State (New Definition)
7. Fatalities Per 100 Million VMT: Virginia , U.S.
7. Alcohol-Impaired Driving Fatalities Per 100 Million VMT: Virginia , U.S.
8. Blood Alcohol Concentration (BAC) Reporting Rates For Drivers/Motorcycle Rider (Operators) Involved in Fatal Crashes: Virginia , U.S. and Best State
9. Front Seat Passenger Vehicle Occupants, Aged 5 and Over, by Restraint Use: Fatalities and Observed Virginia , U.S. and Best State
10. Front Seat Passenger Vehicle Occupant Fatalities, Aged 5 and Over, by Percent Restraint Use: Virginia , U.S.
10. Front Seat Passenger Vehicle Occupants Observed, Aged 5 and Over, by Percent Restraint Use: 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 Virginia

Core Outcome Measures		Year				
		2004	2005	2006	2007	2008
Traffic Fatalities	Total	922	947	962	1,027	824
	Rural	529	582	564	612	479
	Urban	392	363	397	414	339
	Unknown	1	2	1	1	6
Fatalities Per 100 Million Vehicle Miles Driven	Total	1.17	1.18	1.19	1.25	1.00
	Rural	1.73	1.89	1.79	1.98	1.59
	Urban	0.81	0.73	0.80	0.81	0.65
Passenger Vehicle Occupant Fatalities (All Seat Positions)	Total	730	725	760	770	617
	Restrained	285	241	273	274	223
	Unrestrained	414	449	451	461	374
	Unknown	31	35	36	35	20
Alcohol-Impaired Driving Fatalities (BAC=.08+)**		288	279	298	303	294
Speeding-Related Fatalities		251	313	297	341	246
Motorcyclist Fatalities	Total	57	69	69	129	86
	Helmeted	34	56	63	116	79
	Unhelmeted	19	9	2	12	6
	Unknown	4	4	4	1	1
Drivers Involved in Fatal Crashes	Total	1,206	1,242	1,243	1,347	1,087
	Aged Under 15	0	0	1	0	0
	Aged 15-20	174	155	171	167	144
	Aged Under 21	174	155	172	167	144
	Aged 21 and Over	1,020	1,069	1,054	1,171	926
	Unknown Age	12	18	17	9	17
Pedestrian Fatalities		85	88	82	88	76

*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)

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

[Back To The Table of Contents](#)



Fatality Rates: 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
2004	Virginia	922	78,877	1.17	7,454,688	12.37
	US	42,836	2,964,788	1.44	292,892,127	14.63
	Best State*			0.87		7.39
2005	Virginia	947	80,337	1.18	7,546,725	12.55
	US	43,510	2,989,430	1.46	295,560,549	14.72
	Best State*			0.80		6.85
2006	Virginia	962	81,095	1.19	7,628,347	12.61
	US	42,708	3,014,371	1.42	298,362,973	14.31
	Best State*			0.78		6.32
2007	Virginia	1,027	82,077	1.25	7,698,775	13.34
	US	41,259	3,032,399	1.36	301,290,332	13.69
	Best State*			0.79		6.55
2008	Virginia	824	82,278	1.00	7,769,089	10.61
	US	37,261	2,973,509	1.25	304,059,724	12.25
	Best State*			0.67		5.59

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

[Back To The Table of Contents](#)



Fatalities By The Highest Blood Alcohol Concentration (BAC) in the Crash**:
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	
2004	Virginia	922	363	39	314	34	0.40
	US	42,836	16,919	39	14,593	34	0.49
	Best State*			25		21	0.27
2005	Virginia	947	362	38	298	31	0.37
	US	43,510	17,590	40	15,102	35	0.51
	Best State*			14		12	0.14
2006	Virginia	962	374	39	327	34	0.40
	US	42,708	17,738	42	15,144	35	0.50
	Best State*			24		20	0.22
2007	Virginia	1,027	400	39	331	32	0.40
	US	41,259	17,158	42	14,603	35	0.48
	Best State*			24		21	0.23
2008	Virginia	824	394	48	321	39	0.39
	US	37,261	15,438	41	13,294	36	0.45
	Best State*			21		16	0.16

*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

[Back To The Table of Contents](#)



Alcohol-Impaired Driving Fatalities**:
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
2004	Virginia	922	288	31	0.37
	US	42,836	13,099	31	0.44
	Best State*			20	0.25
2005	Virginia	947	279	29	0.35
	US	43,510	13,582	31	0.45
	Best State*			12	0.13
2006	Virginia	962	298	31	0.37
	US	42,708	13,491	32	0.45
	Best State*			18	0.20
2007	Virginia	1,027	303	30	0.37
	US	41,259	13,041	32	0.43
	Best State*			19	0.21
2008	Virginia	824	294	36	0.36
	US	37,261	11,773	32	0.40
	Best State*			16	0.16

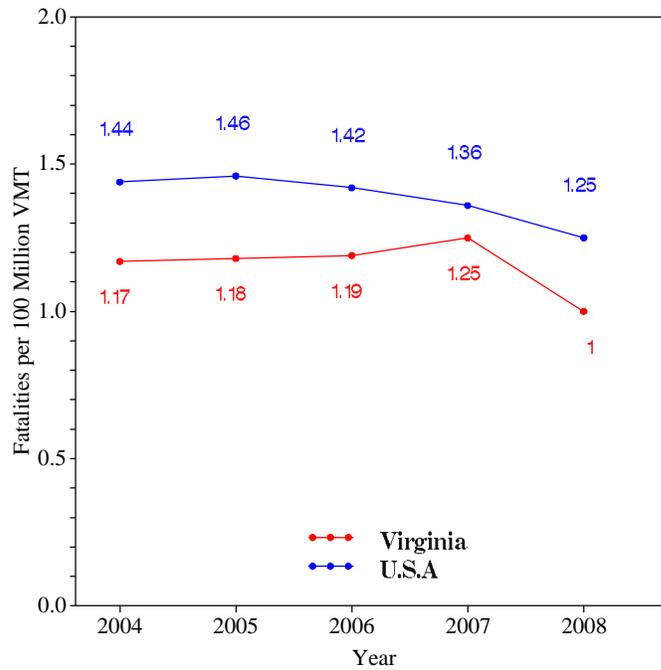
*State (or States) With Lowest Percents: Lowest Percents Could Be in Different States

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

[Back To The Table of Contents](#)

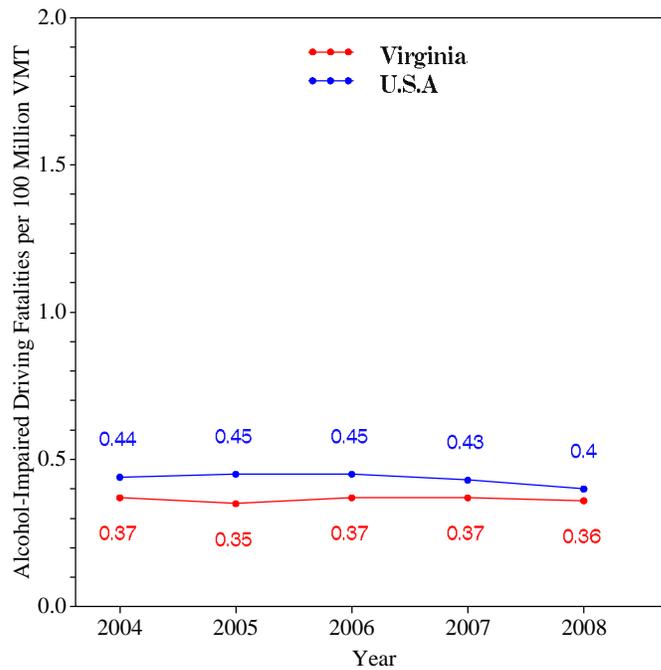


Fatalities per 100 Million VMT



[Back To The Table of Contents](#)

Alcohol-Impaired Driving Fatalities per 100 Million VMT



[Back To The Table of Contents](#)



**Blood Alcohol Concentration (BAC) Reporting Rates
For Drivers/Motorcycle Riders (Operators)
Involved in Fatal Crashes:
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
2004	Virginia	600	9	2	606	310	51	1,206	319	26
	US	31,524	8,215	26	26,871	18,275	68	58,395	26,490	45
	Best State*			80			97			82
2005	Virginia	599	1	0	643	387	60	1,242	388	31
	US	31,729	7,415	23	27,491	18,773	68	59,220	26,188	44
	Best State*			77			98			84
2006	Virginia	597	4	1	646	493	76	1,243	497	40
	US	30,498	7,482	25	27,348	18,911	69	57,846	26,393	46
	Best State*			81			99			85
2007	Virginia	642	81	13	705	477	68	1,347	558	41
	US	29,449	7,631	26	26,570	19,434	73	56,019	27,065	48
	Best State*			82			100			84
2008	Virginia	520	3	1	567	261	46	1,087	264	24
	US	26,011	6,677	26	24,175	17,045	71	50,186	23,722	47
	Best State*			80			95			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
Virginia , U.S. and Best State

Year		Fatalities - Restrained**	Observed - Restrained***
		Percent	Percent
2004	Virginia	52	80
	US	56	80
	Best State*	82	95
2005	Virginia	44	80
	US	55	82
	Best State*	88	95
2006	Virginia	50	79
	US	55	81
	Best State*	77	96
2007	Virginia	46	80
	US	57	82
	Best State*	82	98
2008	Virginia	46	81
	US	56	83
	Best State*	78	97

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

**Percent Based Only Where Restraint Use Was Known

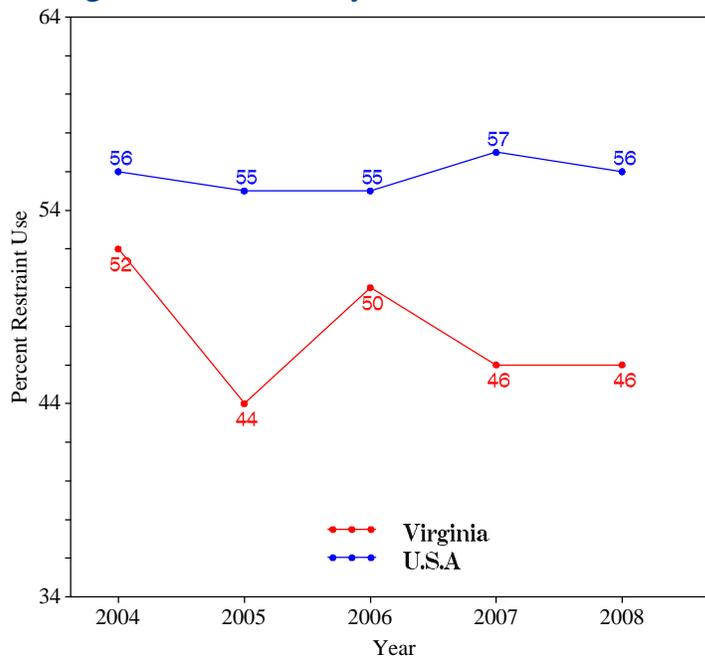
***USA Data: National Occupant Protection Use Survey. Virginia Data: State Survey

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](#)



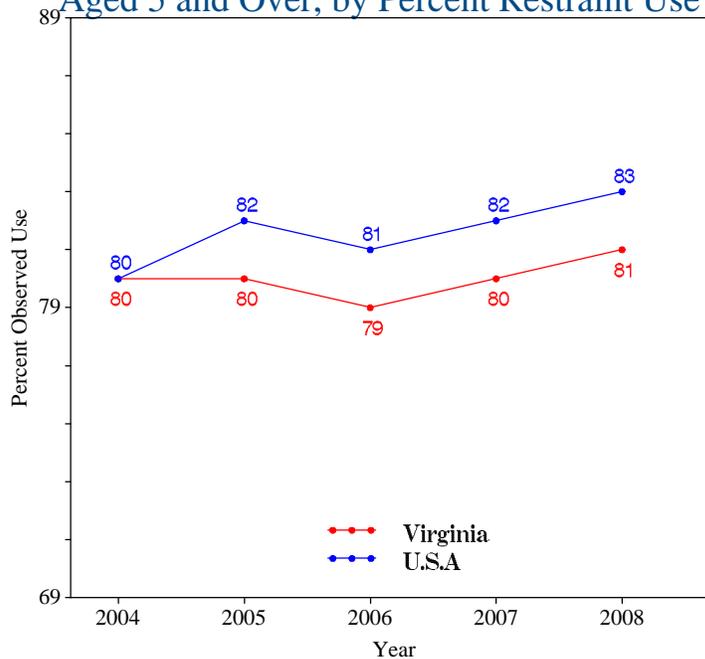
Daytime Front Seat (Outboard Only) Passenger Vehicle Occupant Fatalities, Aged 5 and Over, by Percent Restraint Use*



*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. Virginia Data: State Survey

[Back To The Table of Contents](#)



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
2004	724	281	412	31	41	310	129
2005	717	236	446	35	35	275	132
2006	747	268	445	34	38	321	155
2007	760	269	456	35	37	320	161
2008	606	216	370	20	37	249	113

*Percent Based Only Where Restraint Use Was Known

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

[Back To The Table of Contents](#)

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	
2004	5	4	1	0	80	5	
2005	8	5	3	0	63	0	
2006	12	5	6	1	45	8	
2007	8	5	3	0	63	7	
2008	8	6	2	0	75	7	

*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 Helmeted*	Lives Saved at Current Helmet Use	Additional Lives Savable at 100% Helmet Usage
2004	57	34	19	4	64	22	7
2005	69	56	9	4	86	35	4
2006	69	63	2	4	97	40	0
2007	129	116	12	1	91	69	4
2008	86	79	6	1	93	47	2

*Percent Based Only Where Helmet Use Was Known

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

[Back To The Table of Contents](#)



Fatalities by Person Type

Person Type		2004		2005		2006		2007		2008	
		#	%*	#	%*	#	%*	#	%*	#	%*
Occupants	Passenger Car	478	52	424	45	460	48	441	43	392	48
	Light Truck - Pickup	94	10	135	14	128	13	143	14	112	14
	Light Truck - Utility	115	12	118	12	126	13	153	15	80	10
	Light Truck - Van	43	5	47	5	46	5	33	3	33	4
	Light Truck - Other	0	0	1	0	0	0	0	0	0	0
	Large Truck	20	2	25	3	21	2	19	2	17	2
	Bus	0	0	3	0	1	0	0	0	2	0
	Other/Unknown Occupants	14	2	13	1	13	1	14	1	12	1
	Total Occupants	764	83	766	81	795	83	803	78	648	79
Motorcyclists	Total Motorcyclists	57	6	69	7	69	7	129	13	86	10
Nonoccupants	Pedestrian	85	9	88	9	82	9	88	9	76	9
	Bicyclist and Other Cyclist	9	1	21	2	12	1	7	1	13	2
	Other/Unknown Nonoccupants	7	1	3	0	4	0	0	0	1	0
	Total Nonoccupants	101	11	112	12	98	10	95	9	90	11
Total	Total	922	100	947	100	962	100	1,027	100	824	100

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

[Back To The Table of Contents](#)



Fatalities by Crash Type

Crash Type	2004	2005	2006	2007	2008
Total Fatalities (All Crashes)*	922	947	962	1,027	824
- (1) Single Vehicle	546	600	597	628	526
- (2) Involving a Large Truck	99	112	107	108	78
- (3) Involving Speeding	251	313	297	341	246
- (4) Involving a Rollover	239	276	278	278	218
- (5) Involving a Roadway Departure	536	589	653	671	557
- (6) Involving an Intersection (or Intersection Related)	161	181	165	190	133

(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	Unknown	
2004	1	14	14	17	8	3	0	57
2005	7	22	15	13	7	5	0	69
2006	1	28	11	15	10	4	0	69
2007	4	50	22	22	20	11	0	129
2008	2	23	16	15	13	16	1	86

[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
2004	57	75,457	75.54
2005	69	77,854	88.63
2006	69	81,172	85.00
2007	129	80,393	160.5
2008	86	82,969	103.7

*Data Source: FHWA

[Back To The Table of Contents](#)



Fatalities by Person Type and Race/Hispanic Origin

Person Type by Race/Hispanic Origin		2004	2005	2006	2007
Occupants (All Vehicle Types)	Hispanic	3	5	0	1
	White Non-Hispanic	553	582	596	693
	Black, Non-Hispanic	115	104	140	152
	American Indian, Non-Hispanic/Unknown	1	0	1	3
	Asian, Non-Hispanic/Unknown	2	4	2	1
	All Other Non-Hispanic or Race	9	2	10	14
	Unknown Race and Unknown Hispanic	138	138	115	68
	Total	821	835	864	932
Non-Occupants (Pedestrians, Pedalcyclists and Other/Unknown NonOccupants)					
	Hispanic	0	2	0	0
	White Non-Hispanic	52	63	53	58
	Black, Non-Hispanic	24	26	26	19
	American Indian, Non-Hispanic/Unknown	0	0	0	0
	Asian, Non-Hispanic/Unknown	2	5	0	0
	All Other Non-Hispanic or Race	2	3	2	5
	Unknown Race and Unknown Hispanic	21	13	17	13
Total	101	112	98	95	
Total	922	947	962	1,027	

2008 Race/Hispanic Origin Data is Not Yet Complete

[Back To The Table of Contents](#)



5 Year Trend For The Top 10 Counties of 2008 - Fatalities

Counties by 2008 Ranking		Fatalities					Percent of Total				
		2004	2005	2006	2007	2008	2004	2005	2006	2007	2008
1	Virginia Beach City	22	31	22	25	31	2	3	2	2	4
2	Chesterfield County	32	30	25	29	30	3	3	3	3	4
3	Fairfax County	64	62	67	54	29	7	7	7	5	4
4	Prince William County	23	28	46	28	25	2	3	5	3	3
5	Richmond City	15	9	19	29	20	2	1	2	3	2
6	Henrico County	25	21	38	25	19	3	2	4	2	2
7	Norfolk City	13	14	18	10	19	1	1	2	1	2
8	Halifax County	16	10	12	14	18	2	1	1	1	2
9	Augusta County	13	24	19	15	17	1	3	2	1	2
10	Suffolk City	16	8	12	26	17	2	1	1	3	2
Sub Total 1.*	Top Ten Counties	259	272	305	284	225	28	29	32	28	27
Sub Total 2.**	All Other Counties	663	675	657	743	599	72	71	68	72	73
Total	All Counties	922	947	962	1,027	824	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 2008 - Fatalities Year to Year Percent Change

Counties by 2008 Ranking		Fatalities					Percent Change From Previous Year			
		2004	2005	2006	2007	2008	2005	2006	2007	2008
1	Virginia Beach City	22	31	22	25	31	41	-29	14	24
2	Chesterfield County	32	30	25	29	30	-6	-17	16	3
3	Fairfax County	64	62	67	54	29	-3	8	-19	-46
4	Prince William County	23	28	46	28	25	22	64	-39	-11
5	Richmond City	15	9	19	29	20	-40	111	53	-31
6	Henrico County	25	21	38	25	19	-16	81	-34	-24
7	Norfolk City	13	14	18	10	19	8	29	-44	90
8	Halifax County	16	10	12	14	18	-38	20	17	29
9	Augusta County	13	24	19	15	17	85	-21	-21	13
10	Suffolk City	16	8	12	26	17	-50	50	117	-35
Sub Total 1.* <i>Top Ten Counties</i>		259	272	305	284	225	5	12	-7	-21
Sub Total 2.** <i>All Other Counties</i>		663	675	657	743	599	2	-3	13	-19
Total <i>All Counties</i>		922	947	962	1,027	824	3	2	7	-20

*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 2008 - Fatality Rates

Median Rate for all U.S. Counties: 19.59

Counties by 2008 Ranking		Fatalities Per 100,000 Population				
		2004	2005	2006	2007	2008
1	Sussex County	50.26	67.58	107.68	107.33	90.55
2	Amelia County	84.50	57.89	40.36	39.56	70.27
3	Halifax County	44.61	28.06	33.70	39.49	50.83
4	Dinwiddie County	35.98	35.76	39.39	42.81	49.84
5	Lunenburg County	38.73	15.42	30.76	53.97	46.36
6	Wythe County	21.60	28.45	24.73	28.04	45.19
7	Northampton County	53.16	30.14	37.37	37.40	44.73
8	Carroll County	23.94	37.79	30.86	44.64	44.58
9	Bath County	20.55	0.00	0.00	21.62	44.01
10	King And Queen County	44.82	44.56	14.64	43.71	43.92
<i>Sub Rate 1.*</i>	<i>Top Ten Counties</i>	58.17	64.16	62.44	67.85	51.62
<i>Sub Rate 2.**</i>	<i>All Other Counties</i>	11.25	11.73	11.80	12.50	9.62
<i>Total Rate</i>	<i>All Counties</i>	12.37	12.55	12.61	13.34	10.61

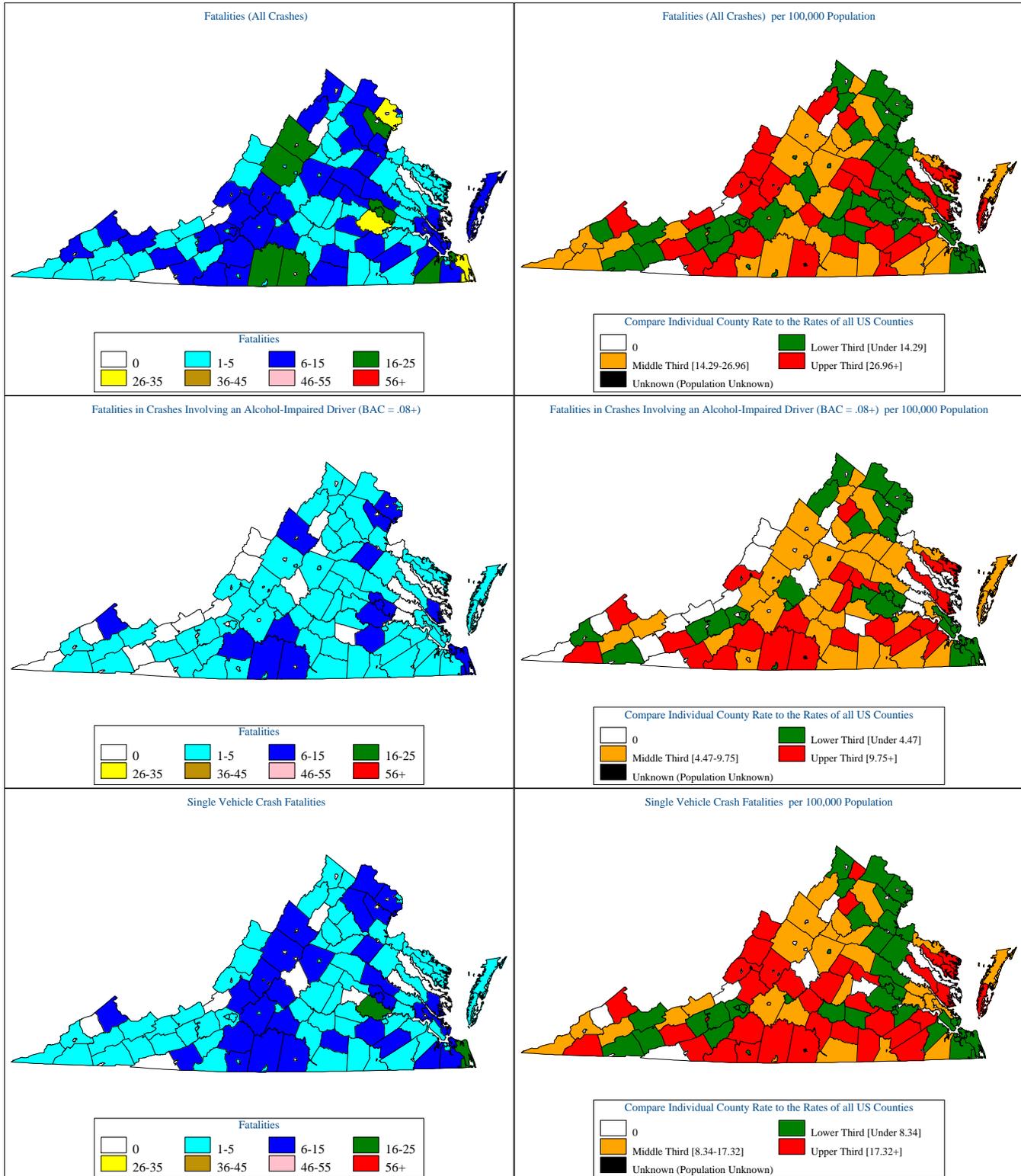
*This Sub Rate is the Rate for the Top Ten Counties

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

[Back To The Table of Contents](#)



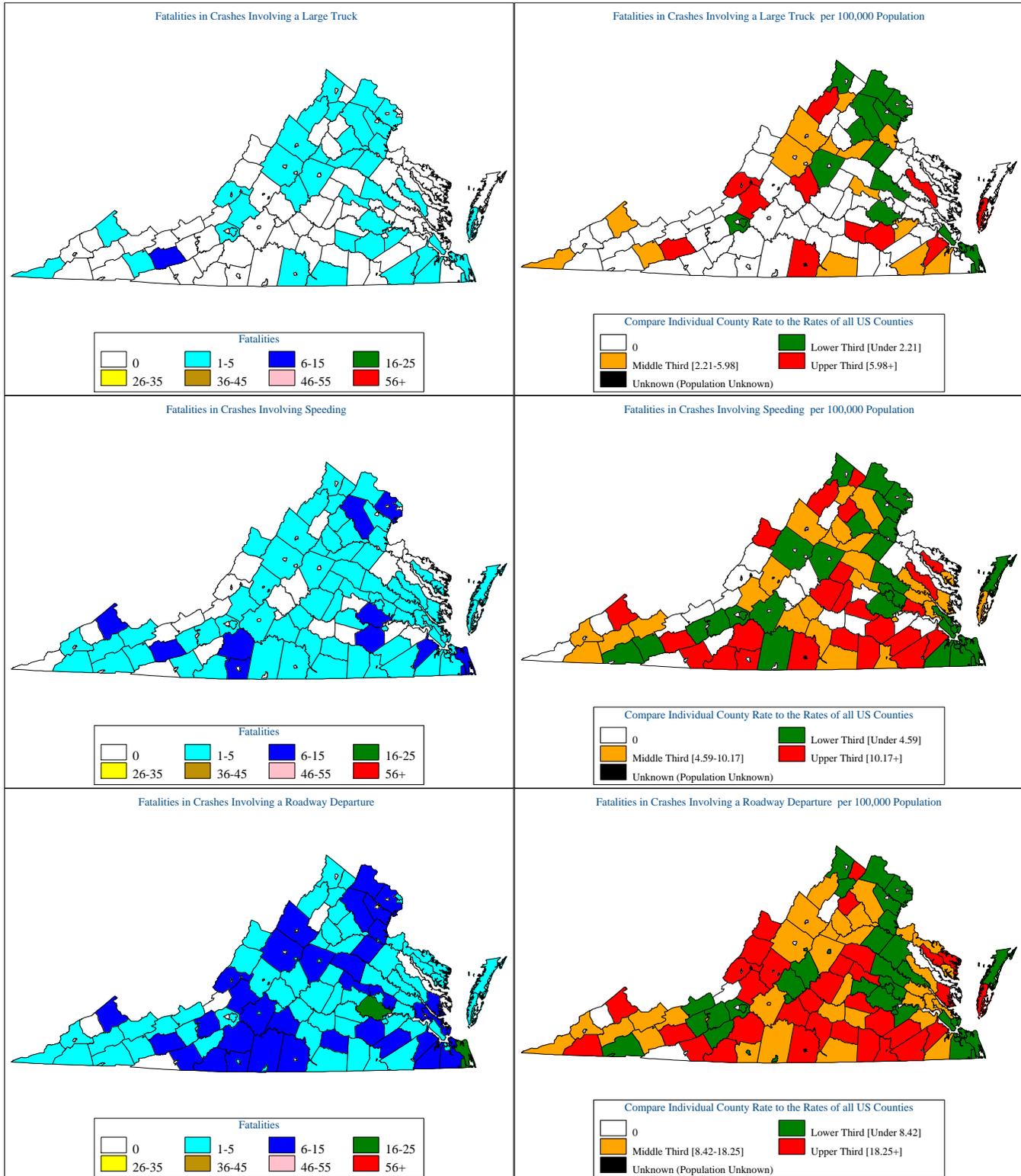
Virginia Motor Vehicle Crash Fatality Maps for 2008



[Back To The Table of Contents](#)



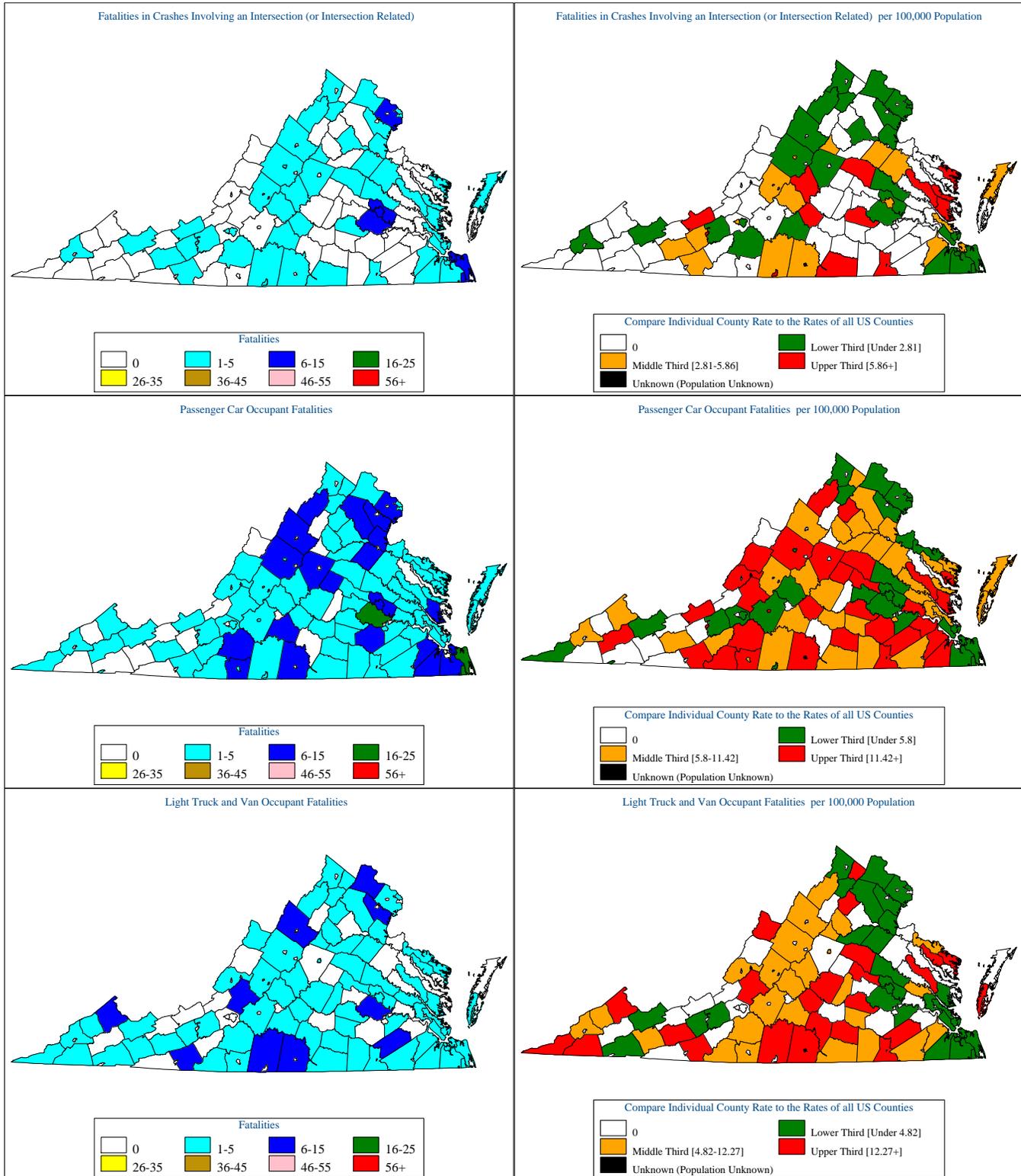
Virginia Motor Vehicle Crash Fatality Maps for 2008



[Back To The Table of Contents](#)



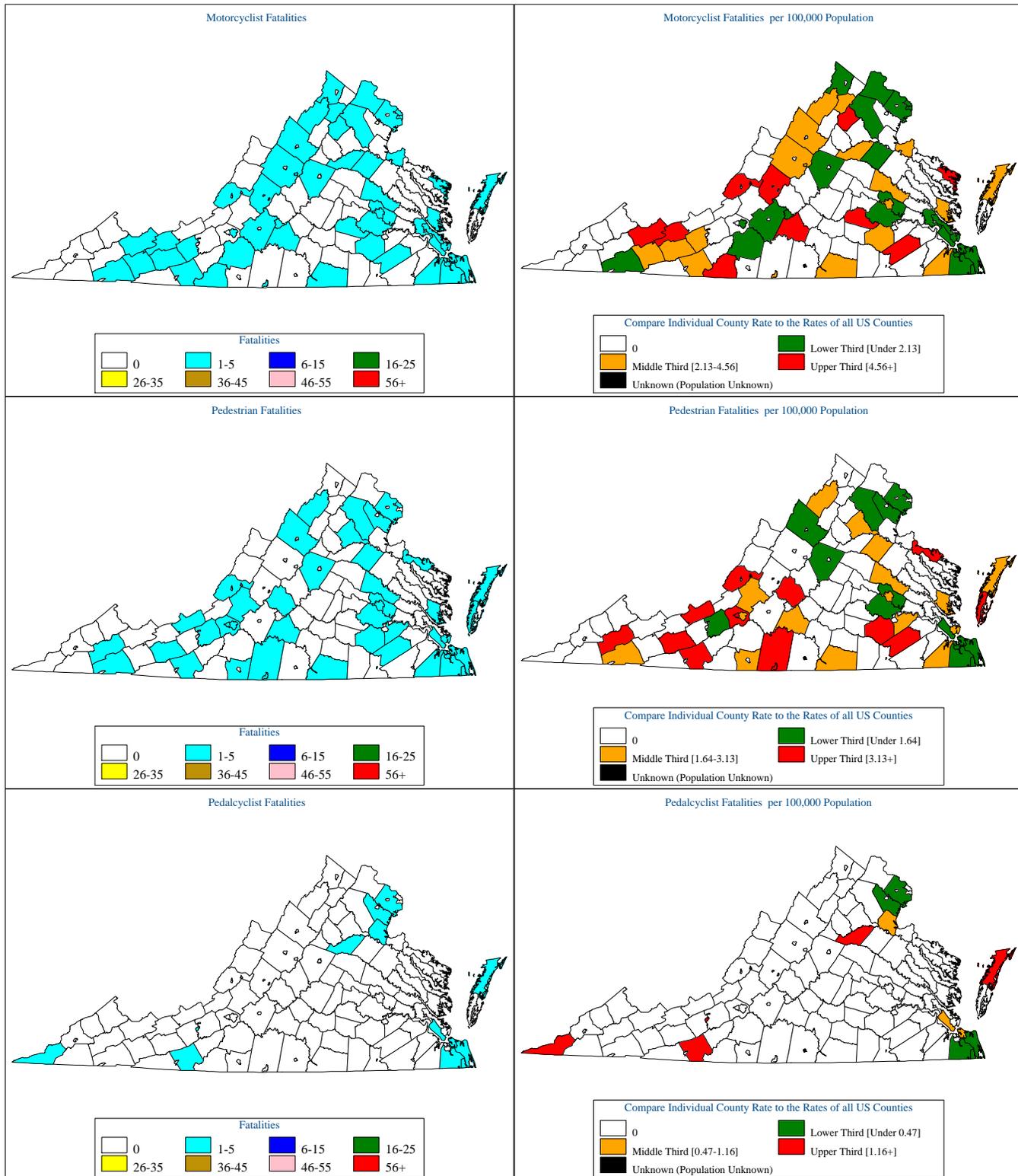
Virginia Motor Vehicle Crash Fatality Maps for 2008



[Back To The Table of Contents](#)



Virginia Motor Vehicle Crash Fatality Maps for 2008



[Back To The Table of Contents](#)